

# **Project Closeout Report**

**Bradford Island Contaminated Sediment Removal  
Bonneville Dam  
Cascade, Oregon**

**Contract No. W9127N-07-C-0017**

*Submitted to:*

**U. S. Army Corps of Engineers – Portland District  
Portland Resident Office  
1060 NW Corporate Drive  
Troutdale, OR 97060**

*Submitted by:*

**Huang & Associates, Inc.  
9880 Waterman Road, Suite 130  
Elk Grove, CA 95624**

**Project No. HA02**

**December 2007**



1/4/08

<b>TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE</b> (Read instructions on the reverse side prior to initiating this form)	DATE 01/04/2008	TRANSMITTAL NO. 01 74 17-1
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**SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS** (This section will be initiated by the contractor)

TO: Portland Resident Office 1060 NW Corporate Drive Troutdale, Oregon 97060-9540	FROM: Huang & Associates, Inc. 1327 SE Tacoma Street, #302 Portland, OR 97202	CONTRACT NO. W9127N-07-C-0017 NA	CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL _____
SPECIFICATION SEC. NO. (Cover only one section with each transmittal) 01 74 17	PROJECT TITLE AND LOCATION Bradford Island Hazardous Waste Clean Up Bonneville Lock & Dam		CHECK ONE: THIS TRANSMITTAL IS FOR <input type="checkbox"/> FIO <input checked="" type="checkbox"/> GA <input type="checkbox"/> DA <input type="checkbox"/> CR

ITEM NO.  a.	DESCRIPTION OF ITEM SUBMITTED (Type, size, model number, etc.)  b.	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. (See instruction no. 8)  c.	NO. OF COPIES  d.	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE  g.	VARIATION (See Instruction No. 6)  h.	FOR CE USE CODE  i.
				SPEC. PARA. NO.  e.	DRAWING SHEET NO.  f.			
2	Final Closeout Report	CLOSEOUT SUBMTL	10	3.5		A	N	

<b>REMARKS</b> Please return all copies to address as follows: Huang and Associates Inc. 10728 SE Hwy 212 Clackamas, OR. 97015	I certify that the above submitted items have been reviewed in detail and are correct and in the strict conformance with the contract drawings and specifications except as otherwise stated.   NAME AND SIGNATURE OF CONTRACTOR
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**SECTION II - APPROVAL ACTION**

ENCLOSURES RETURNED (List by item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE



Contractor:	
Huang and Associates Inc.	
Contract Number	
W9127N-07-C-0017	
Transmittal Number	01 74 17-1
Item Number	2
Specification Section	01 74 17
Paragraph Number	
<input checked="" type="checkbox"/>	Approved as Submitted
<input type="checkbox"/>	Approved with Corrections as Noted
Signature:	
Title:	QCO
Date:	1/4/2008



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## Attachments

Water Quality Sampling Results  
 Contractor Quality Control Reports  
 Project Safety & Health Phase Out Report  
 Contaminated Sediment Disposal Records  
 Contaminated Sediment Sample Results  
 Record Drawings  
 Project Photos  
 Dive DVDs



## 1.0

## INTRODUCTION AND BACKGROUND

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The purpose of this Project Closeout Report is to outline the steps taken to complete the required tasks for Contract No. W9127N-07-C-0017, Bradford Island Contaminated Sediment Removal.

### 1.1 SITE LOCATION

The Bonneville Dam is the most downstream dam on the Columbia River and is part of the Columbia-Snake River navigation system. The Columbia River is the boundary between Washington State and Oregon State. The project site is located upstream of Bonneville Dam on the north side of Bradford Island within the spillway forebay. The site is within the southwest quadrant of Section 22, Township 2 North, Range 7 East, Willamette Meridian. The Columbia River (River) at the Bonneville Dam is divided into three channels by two islands, Bradford Island and Cascades Island. The tailrace for the first powerhouse forms one channel, the spillway forms the middle channel, and the tailrace for the second powerhouse forms the third channel. The work under this contract will be performed just west of the spillway off Bradford Island.

### 1.2 SITE BACKGROUND

The investigation of the sediments in and around Bradford Island began as part of the evaluation of the Bradford Island Landfill, which is a former waste disposal site for Bonneville Lock and Dam. Light ballasts were discovered on the north shore of the island, which spurred the initial investigation. It was found that electrical equipment and debris were submerged in the Columbia River just offshore of the landfill. The electrical equipment and debris were removed in 2002. A sediment investigation in 2004 revealed that polychlorinated biphenyl (PCB) Aroclor 1254 was detected at high levels along certain parts of the river bottom. The corrective actions under this contract are to remove sediments from those impacted areas that exhibit the highest concentration of contaminants of concern (COC).

### 1.3 SCOPE OF WORK

The purpose of the Bradford Island In-Water Removal Action was to remove, treat, and/or manage the polychlorinated biphenyl (PCB) - impacted sediments to a level that will:

1. contribute to the long-term management of PCBs at the Site;
2. reduce risk to human receptors by addressing the dermal adsorption, food web, and incidental ingestion routes;
3. reduce risk to higher trophic-level ecological receptors or the benthic community in the immediate vicinity of Bradford Island by addressing the incidental ingestion, uptake/dermal contact, and food web routes; and
4. prevent migration of PCB-impacted sediments.

The scope of work involved:

- Mobilization and providing all labor, materials, tools, equipment, supplies, and supervision necessary to perform the Bradford Island In-Water Removal Action;
- Diver-assisted hydraulic dredging of sediment in the Columbia River from three removal areas (RA) RA1, RA2, and RA3;
- Dewatering of sediment on a barge and treating the decanted water with sand filtration and activated carbon adsorption;
- Discharge of treated decant water back to the River;
- Environmental monitoring of River water for turbidity;



- Removal and transloading of the dewatered sediment from the barges to trucks, followed by transport to a properly permitted disposal facility;
- Monitoring and verification of construction activities;
- Coordination of in-water work with the government, tribal fishing operations, the Bonneville Dam facility, and recreational and commercial traffic;
- Preparation of record drawings and other construction documentation; and upon completion of the project
- Demobilization of personnel, equipment, materials, temporary facilities and utilities, and close-out reporting.



## 2.0

## PROJECT ACTIVITIES

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HAI's field construction approach is designed to accomplish all project technical objectives and specifications, and to observe all Best Management Practices (BMP) applicable to on-site field activities.

### 2.1 PRE-CONSTRUCTION ACTIVITIES

#### **2.1.1 Site Survey**

The corner points for the Removal Areas RA1, RA2 and RA3 were provided by the USACE in the plans as Points 1 through 14. The locations were given in Northing and Easting coordinates. Prior to starting on-site activities the Northing and Easting coordinates were converted to GPS coordinates by a subcontracted surveyor. This was to allow the use of a handheld GPS unit to locate and mark the corner points of the Removal Areas once we were on the water.

#### **2.1.2 Mobilization for Equipment Setup**

HAI, Rain for Rent and Global Diving mobilized to Swan Island near Portland Oregon on September 17, 2007. We used the Fred Devine Diving and Salvage loading dock and the Hendren Tugboat Service dock to load and assemble the floating plant used during the project. The floating plant consisted of a dive barge, treatment barge, dewatering barge, a tugboat and a BRZ Safety boat. The dive barge was equipped with a crane, dive shack, dredge system, decontamination station, decompression chamber and a changing room. The treatment barge was equipped with a flocculent injector pump, three (3) frac tanks, three (3) weir tanks, sand filters, bag filters, an activated carbon vessel, system control room and interconnecting pumps and hoses. The dewatering barge consisted of eleven (11) dewatering boxes and interconnecting hoses.

An initial floating plant inspection and an initial pre-dive inspection were conducted. Deficiencies and items of concern were corrected.

Assembly of the barges was completed on September 30, 2007.

#### **2.1.3 Mobilization to Bradford Island**

The barges and BRZ safety boat were mobilized from Swan Island, Oregon to the Bradford Island Project Site using the Nellie tugboat. Once on-site the barges were secured together to form the floating plant. Final interconnection piping was installed, portable toilets were placed and the decontamination station was constructed. Final loading of tools and supplies was performed and communications systems were tested.

The final floating plant and pre-dive inspections were performed. A Site Specific Safety briefing was also conducted for all on-site personnel associated with the project. Injured diver-in-the-water drills were also conducted.

HAI also mobilized a land based office trailer, generator and portable toilet and handwash station.

#### **2.1.4 Site Security**

The Site is located within the confines of a protected dam on U.S. property. All on-site HAI and subcontractor personnel attended an on-site security briefing and obtained site badges. HAI maintained their contractor facilities under lock and key throughout the project and only authorized personnel were allowed within the work zone.



## **2.2 FIELD ACTIVITIES**

The floating plant was moved into position to begin remediation at RA3 on October 2, 2007.

### **2.2.1 RA3**

The four corners of RA3 (Points 5, 6, 7 and 8) were located using a handheld GPS units. The locations were then marked using anchors. Procedures for removing sediment were conducted and discussed. The treatment system was filled with river water and put into operation.

Initial sediment removal from RA3 was completed on October 2, 2007. During remediation of subsequent RA's and after field survey checks it was discovered that a small area RA3 had not been covered. HAI remobilized to RA3 to complete the area. Final sediment removal of RA3 was completed on October 18, 2007.

Problems encountered and field solutions were as follows:

The initial screen on the dredge suction head experienced clogging with clam shells. Alternate sizes and styles of screens were fabricated and tested and a final design was adopted for use.

The sediment from the river bottom was much finer than anticipated. This caused the sediment to flow thru the dewatering box liners and into the treatment system. The initial dewatering box liners had 250 micron liners. 130 micron liners were placed in the boxes to trap more sediment. The media in the sand filters was changed out when the 130 micron liners were installed to increase the efficiency of the system.

The initial system design was to have the liquid gravity drain between the frac tanks and the weir tanks. However, the gravity drain between the tanks was not adequate so a pump was placed between the tank manifolds to better regulate flow.

### **2.2.2 RA1**

The floating plant was moved to the west end of RA1 on October 5, 2007. RA1 corner points 9, 10 and 11 were located using a handheld GPS unit. The locations were marked using anchors. Sediment removal began on October 8, 2007 on the western side of RA1 and was completed on October 23, 2007.

Problems encountered and field solutions were as follows:

At the start of sediment removal in RA1 we were informed by USACE personnel present during previous sampling operations that the marked western boundary of RA1 was believed to be too far west. Initially we reverified the corner locations by scaling off the plans and also with a different GPS unit. We also obtained survey data of existing permanent markers at the Bonneville Dam from the USACE. When we checked the permanent markers with the GPS units it was found that the GPS units were not accurate enough for this intended use. We then used a local survey company to set up a grid system across the island using the permanent marker data. All corner locations 1 thru 14 were located and marked using anchors. What was found was that our marked boundaries for RA3 and RA1 were too far to the west. Thus sediment on the eastern side of RA3 had yet to be completed so HAI remobilized to this area and completed the remediation.



We encountered high winds and inclement weather during the sediment removal in RA1. As a safety precaution the operations were shutdown and the floating plant was moved to a secured location against the bank near area RA3. The floating plant was prepared for inclement weather and the plant was inspected during the storms to ensure that everything was secure. After the second storm event the floating plant was then moved back to RA1 and sediment removal of RA1 resumed on October 22, 2007.

During one of the dives the screen came loose from the suction hose and rocks were sucked into the dredge pump. Pump repairs were conducted but due to time constraints the pump was switched out with another pump. Procedures were modified and work continued.

### **2.2.3 RA2**

The floating plant was moved to RA2 and sediment removal began on October 25, 2007 and was completed on October 30, 2007.

Problems encountered and field solutions were as follows:

The start of sediment removal in RA2 was delayed one day to allow the fish count to fall below 1,000 fish per day at the fish ladder.

We were requested to collect clams for sample analysis in the eastern and western halves of RA2. There were very few clams in the area of RA2 so we were unable to collect the requested amount.

### **2.2.4 Recovered Debris**

During the remediation effort, small electrical components were discovered at the bottom of the river. HAI and subcontractor personnel pulled these items up off the river bottom to the barge for disposal. The items were vacuumed in place to remove sediments. The items were then bagged and lifted to the surface. The bagged items were then placed in a metal drum for storage. The items included small switches and an electric motor. The items were common electrical components that would not contain PCBs. The collected items were turned over to the USACE at the end of the project.



## 3.0

## POST CONSTRUCTION

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Post construction scope consists of site restoration, transportation and disposal and demobilization.

### **3.1      *Demobilization***

At the completion of the sediment removal from RA1, RA2 and RA3 the dredge and treatment systems were decommissioned. The system was flushed using clean river water to remove any sediments in the hoses. The treatment system was then manually pumped down from the initial frac tanks to the activated carbon filter. This was to remove as much remaining sediment in the system as possible. The removed sediments were ran thru the system and placed in the dewatering tanks. The interconnecting hoses were then disconnected and the barges were prepared for transport. All decontamination water was properly disposed of at a disposal facility.

Equipment on the dive barge was also partially disassembled and prepared for transport.

Land based demobilization included removal of the temporary dock, office trailer, portable toilets, handwash, generator, tools, equipment, supplies and trash.

Salvaged electrical equipment collected during dive operations were given to the USACE. This consisted of switches and an electric motor. All items were bagged and placed in a metal drum. None of these items were suspected of containing PCBs.

### **3.2      *Off Loading, Transportation and Disposal of Dewatering Boxes***

The dewatering boxes were removed from the barge and placed on the ground at Bradford Island on November 3, 2007. The dewater barge was moved to the island and the boxes were removed using a land based crane. The boxes were then loaded on to trucks and transported to Wasco County Landfill for disposal.

Additional personnel were on-site to direct traffic and to help with the unloading and reloading process.

### **3.2      *Site Restoration***

Prior to leaving the project site all areas were inspected to ensure that all equipment and supplies had been removed and that occupied areas were returned to pre-construction conditions. All signage was removed and general housekeeping was performed.

### **3.3      *Barge Disassembly***

The dive barge and dewatering barges were returned to Swan Island. All dive gear, equipment and supplies were removed and the barges were taken off rent.

The treatment barge was taken to the Tidewater Barge Lines Vancouver, WA facility. The components of the treatment barge were off loaded using Tidewater's on-site crane. The frac and weir tanks were cleaned and flushed by West Coast Marine Cleaning, Inc. The sediments were removed using a vac-truck and were then transported to Wasco County Landfill for disposal. The spent carbon was removed from the carbon vessel and taken to Siemens Water Technologies for recycling.



The remaining pumps, hoses, other equipment and supplies were returned to company storage. The treatment barge was then returned to Swan Island.







### Water Quality Sampling Results

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/3/2007	2.40	10	2.27	15	Calibrated unit with 1NTU control sample
Downstream:		2.30	10	2.30	15	
Observations	Calm and partly cloudy					

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/3/2007	2.35	10	2.34	15	Calibrated unit with 1NTU control sample
Downstream:		2.33	10	2.30	15	
Observations	Calm and partly cloudy					

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/4/2007	2.04	12	2.20	14	Test taken 100' up stream
Downstream:		1.91	12	2.00	14	Test taken 250' downstream
Observations	Calm and partly cloudy					

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/4/2007	2.22	12	2.20	14	Test taken 100' up stream
Downstream:		2.25	12	2.00	14	Test taken 250' downstream
Observations	Calm and partly cloudy					

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/5/2007	x	x	x	x	No in water work today
Downstream:		x	x	x	x	
Observations						

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/5/2007	x	x	x	x	No in water work today
Downstream:		x	x	x	x	
Observations						

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/8/2007	2.21	12	2.30	18	Test taken 100' upstream
Downstream:		2.16	12	2.20	18	Test taken 250 downstream
Observations	Calm Day with minimal current					

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/8/2007	2.20	12	2.26	18	Test taken 100' upstream
Downstream:		2.24	12	2.21	18	Test taken 250 downstream
Observations	Calm Day with minimal current					

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/9/2007	1.80	15	1.70	20	100' upstream from site
Downstream:		1.98	15	1.76	20	250' downstream from site
Observations						

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/9/2007	2.00	15	2.10	20	100' upstream from site
Downstream:		2.00	15	2.08	20	250' downstream from site
Observations						

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/10/2007	2.11	30	2.41	15	NTU 100' from site
Downstream:		2.30	30	2.43	15	NTU 200' from site
Observations						

	Date:	Turbidity (NTU)	Depth	Turbidity (NTU)	Depth	Comments
Upstream:	10/10/2007	2.30	30	2.40	15	NTU 100' from site
Downstream:		2.27	30	2.29	15	NTU 200' from site
Observations						



Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/11/2007	2.70	28	2.50	15	NTU 100' from site
Observations		2.60	28	2.46	15	NTU 200' from site
Current rather strong today coming around point of Bradford Island, also more debris in river than usual						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/11/2007	2.30	28	2.50	21	NTU 100' from site
Observations		2.43	28	2.80	21	NTU 100' from site
Current rather strong today coming around point of Bradford Island, also more debris in river than usual						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/12/2007	2.20	15	2.23	21	NTU 100' from site
Observations		2.20	15	2.30	21	NTU 100' from site
Calm light breeze, no visible plum						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/12/2007	2.23	15	2.25	25	NTU 100' from site
Observations		2.21	15	2.28	25	NTU 100' from site
Calm light breeze, no visible plum						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/15/2007	2.35	15	2.20	25	NTU 100' from site
Observations		2.30	15	2.23	25	NTU 100' from site
Pump issue today. Minimal diving today						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/15/2007	2.40	15	2.35	25	NTU 100' from site
Observations		2.30	15	2.50	25	NTU 100' from site
Pump issue today. Minimal diving today						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/16/2007	2.50	12	2.40	20	NTU 100' from site
Observations		2.46	12	2.47	20	NTU 100' from site

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/17/2007	2.40	15	2.30	21	NTU 100' from site
Observations		2.40	15	2.25	21	NTU 100' from site
Wind picking up today floating plant moved at end of day to secure at shoreline						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/17/2007	2.40	15	2.30	21	NTU 100' from site
Observations		2.40	15	2.25	21	NTU 100' from site
Wind picking up today floating plant moved at end of day to secure at shoreline						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/18/2007	2.60	15	2.34	21	NTU 100' from site
Observations		2.45	15	2.40	21	NTU 100' from site
Removed sediment from reverified area of RA3						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/18/2007	2.57	15	2.50	21	NTU 100' from site
Observations		2.60	15	2.48	21	NTU 100' from site
Removed sediment from reverified area of RA3						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/22/2007	2.30	10	2.20	15	NTU 100' from site
Observations		2.31	10	2.26	15	NTU 100' from site
Removed sediment from the tip of RA1. Very little sediment in this location						

Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/22/2007	2.40	10	2.30	15	NTU 100' from site
Observations		2.31	10	2.24	15	NTU 100' from site
Removed sediment from the tip of RA1. Very little sediment in this location						



Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/23/2007	2.40	10	2.30	15	NTU 100' from site
Observations		2.40	10	2.38	15	NTU 100' from site
	Finished removal of sediment from RA1. Minimal current coming from around point of Bradford Island					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/23/2007	2.38	10	2.41	15	NTU 100' from site
Observations		2.42	10	2.37	15	NTU 100' from site
	Finished removal of sediment from RA1. Minimal current coming from around point of Bradford Island					
Downstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Observations	10/25/2007	2.62	20	2.45	30	NTU 100' from site
		2.65	20	2.50	30	NTU 100' from site
	Strong winds today. Floating debris has increased moving downriver					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/25/2007	2.60	20	2.50	30	NTU 100' from site
Observations		2.57	20	2.54	30	NTU 100' from site
	Started removal of sediment from RA2 today. Sediment here thicker than previous areas					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/26/2007	2.43	20	2.30	30	NTU 100' from site
Observations		2.40	20	2.36	30	NTU 100' from site
	Strong winds continued today. Much more floating debris in river than normal					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/26/2007	2.50	20	2.45	30	NTU 100' from site
Observations		2.48	20	2.50	30	NTU 100' from site
	Strong winds continued today. Much more floating debris in river than normal					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/29/2007	2.28	40	2.45	50	NTU 100' from site
Observations		2.30	40	2.40	50	NTU 100' from site
	Sediment layer thinning out towards deep end of location					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/29/2007	2.30	40	2.41	50	NTU 100' from site
Observations		2.34	40	2.39	50	NTU 100' from site
	Sediment layer thinning out towards deep end of location					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/30/2007	2.20	40	2.40	50	NTU 100' from site
Observations		2.41	40	2.43	50	NTU 100' from site
	Completed sediment removal action at RA2					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/30/2007	2.33	40	2.40	50	NTU 100' from site
Observations		2.29	40	2.41	50	NTU 100' from site
	Completed sediment removal action in RA2					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/31/2007	2.30	10			Only performed mid depth sample for turbidity
Observations		2.28	10			
	Discharge of remaining treated water from tanks					
Upstream:	<b>Date:</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Turbidity (NTU)</b>	<b>Depth</b>	<b>Comments</b>
Downstream:	10/31/2007	2.36	10			Only performed mid depth sample for turbidity
Observations		2.28	10			
	Discharge of remaining treated water from tanks					



### Treatment System Turbidity Readings

Date:	Wier Tank (Mid System )		Discharge	
	Time	NTU	Time	NTU
10/03/07	15:00	42.5	15:00	1.04
10/04/07	12:10	23	12:10	0.188
	15:15	20.9	15:15	0.201
10/08/07	11:08	30	11:08	0.307
	12:30	31.2	12:30	0.209
	14:02	21.4	14:02	0.187
	16:30	13.8	16:30	0.259
10/09/07	10:10	12.9	10:10	0.209
	12:10	25.3	12:10	0.241
	14:05	22.5	14:05	0.244
	16:15	24.8	16:15	0.233
10/10/07	10:00	8.48	10:00	0.362
	11:15	7.34	11:15	0.261
	12:40	15.4	12:40	0.236
	13:25	18.1	13:25	0.236
	15:15	19.9	15:15	0.253
10/11/07	9:00	8.53	9:00	0.277
	10:00	16.1	10:00	0.241
	11:00	20.2	11:00	0.227
	13:00	14.4	13:00	0.222
	14:30	15.8	14:30	0.214
	15:24	17.1	15:24	0.226
10/12/07	7:30	7.46	7:30	0.285
	10:30	9.64	10:30	0.254
	12:45	18.3	12:45	0.222
	13:45	17.3	13:45	0.232
	15:45	16.7	15:45	0.234
10/15/07	9:00	10.9	9:00	0.26
	10:00	7.74	10:00	0.274
	16:15	12.3	16:15	0.215
10/16/07	8:00	8.93	8:00	0.274
	9:40	8.93	9:40	0.238
	10:30	8.88	10:30	0.22
	11:30	18.7	11:30	0.226
	12:45	16.3	12:45	0.213
	13:45	14.2	13:45	0.216
	14:50	14.5	14:50	0.21
10/17/07	7:30	8.99	7:30	0.289
	12:30	5.4	12:30	0.302
	13:20	14.9	13:20	0.224
	13:50	17.4	13:50	0.243
	14:30	12.7	14:30	0.234



Date:	Wier Tank (Mid System )		Discharge	
	Time	NTU	Time	NTU
10/18/07	8:00	5.17	8:00	0.302
	9:00	8.11	9:00	0.237
	10:10	24.4	10:10	0.234
	12:00	27.3	12:00	0.237
	13:50	32.5	13:50	0.222
	15:15	30.7	15:15	0.228
10/22/07	8:30	10.5	8:30	0.27
	10:30	7.82	10:30	0.244
	12:00	16.1	12:00	0.174
	13:30	14.2	13:30	0.207
	14:50	16.5	14:50	0.188
	16:00	14.1	16:00	0.214
10/23/07	8:00	4.52	8:00	0.209
	10:30	15.4	10:30	0.227
	12:10	16	12:10	0.215
	13:20	14	13:20	0.24
	14:15	13.7	14:15	0.204
10/25/07	9:40	6.5	9:40	0.229
	11:30	12.3	11:30	0.207
	12:23	30.5	12:23	0.203
	13:20	32.7	13:20	0.198
	14:35	39.9	14:35	0.169
	16:00	36.7	16:00	0.189
10/26/07	8:45	11.6	8:45	0.22
	10:40	39.3	10:40	0.204
	11:35	38.8	11:35	0.222
	12:45	34.2	12:45	0.21
	14:00	37.2	14:00	0.229
	15:00	33.5	15:00	0.226
	16:00	41.4	16:00	0.222
10/29/07	8:20	6.73	8:20	0.24
	9:00	24.6	9:00	0.277
	10:00	45.9	10:00	0.284
	11:45	33.9	11:45	0.359
	13:00	31.8	13:00	0.428
	14:00	36.2	14:00	0.333
	15:00	32.4	15:00	0.437
	16:00	36	16:00	0.453
10/30/07	8:40	8.75	8:40	0.27
	9:50	8.8	9:50	0.476
	12:15	42.8	12:15	0.658
	13:00	40.6	13:00	0.578
	14:00	42.5	14:00	0.482
	15:00	41.8	15:00	0.464
10/31/07	9:00	76.2	9:00	0.435
	10:00	54.7	10:00	0.366
	11:00	82.2	11:00	0.389
	12:00	43.1	12:00	0.305







<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 43 <span style="float: right;">Page 1 of 1</span>																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 27 Sep 2007 - Thursday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 54 °F, Max 65 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>																															
<b>Activities in Progress:</b> Floating plant inspections held today. Preliminary walk through for floating plants before moving to bradford Island for project startup. Preliminary walk found minimal issues with floating plant. Final floating plant inspection to be held at Bradford Island.  Pre dive inspection also conducted on floating plant. High Pressure tank and additional low pressure compressor need to be corrected and inspection repots provided before use on barge.  Continued set up of floating plant in preparation for movement to Bonneville Dam/Bradfor Island.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																															
<b>QC REQUIREMENTS</b> No QC requirements were completed today																															
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<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 44	Page 1 of 1																												
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 28 Sep 2007 - Friday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 54 °F, Max 66 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Finalizing placement of equipment on floating plant and making repairs to items discussed during preliminary floating plant inspection.  Dive barge being finalized also prior to floatingplant movement to Bonneville dam. Movement is currently scheduled for 9/30/07 to arrive on 10/01/07																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
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<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 47	Page 1 of 2																				
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 01 Oct 2007 - Monday																					
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA																					
WEATHER Weather Caused No Delay Temperature Min 52 °F, Max 65 °F; No Precipitation; 5 MPH Wind																							
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Mandatory site meeting held for pre site clearance/Bonneville Dam Safety brief. All personnel that will be present on the project attended.  Prepped floating plant for movement into BRZ, moored floating plant upstream from BRZ until 10/2/07.  Walked area on Bradford Island to determine good anchor points for landside anchors.  <b>General Comments:</b> Obtained badging for all employees that will be present during daily activities of the project.  Reviewed site safety requirements and conducted pre dive preparatory meeting in preparation for sediment removal activities.																							
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																							
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																							
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<b>CONTRACTORS ON SITE</b> (Report first and/or last day contractors were on site) Today was the first day on site for the following 2 contractors: Global D and S Huang & Associates  No contractors had their last day on site today																							
<b>LABOR HOURS</b> The following labor hours were Reported today: <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Employer</th> <th style="text-align: left;">Labor Classification</th> <th style="text-align: right;">Number of Employees</th> <th style="text-align: right;">Hours Worked</th> </tr> </thead> <tbody> <tr> <td>Global D and S</td> <td>LABORERS</td> <td style="text-align: right;">7.0</td> <td style="text-align: right;">70.0</td> </tr> <tr> <td>Huang &amp; Associates</td> <td>LABORERS</td> <td style="text-align: right;">3.0</td> <td style="text-align: right;">30.0</td> </tr> <tr> <td colspan="2">Total hours worked to date: 220.0</td> <td style="text-align: right;">Total 10.0</td> <td style="text-align: right;">100.0</td> </tr> </tbody> </table>				Employer	Labor Classification	Number of Employees	Hours Worked	Global D and S	LABORERS	7.0	70.0	Huang & Associates	LABORERS	3.0	30.0	Total hours worked to date: 220.0		Total 10.0	100.0				
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<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 47 <span style="float: right;">Page 2 of 2</span>	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 01 Oct 2007 - Monday	
004                      Nellie Tug Total operating hours to date: 110.0		CONTRACT NUMBER W9127N-07-C-0017 NA  <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="text-align: right; margin-right: 10px;">Total</div> <div style="text-align: center;"> <div style="border-top: 1px solid black; width: 50px; margin: 0 auto;">0.0</div> <div style="border-top: 1px solid black; width: 50px; margin: 0 auto;">0.0</div> </div> <div style="text-align: center;"> <div style="border-top: 1px solid black; width: 50px; margin: 0 auto;">10.0</div> <div style="border-top: 1px solid black; width: 50px; margin: 0 auto;">50.0</div> </div> </div>	
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today			
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.			
QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 48 <span style="float: right;">Page 1 of 1</span>	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 02 Oct 2007 - Tuesday	
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA	
WEATHER Weather Caused No Delay Temperature Min 50 °F, Max 64 °F; No Precipitation; 5 MPH Wind			

**QC NARRATIVES**  
  

**Activities in Progress:**  
 Moved floating plant into first location over RA3 in preparation for sediment removal.

RA3 will be grided off into 7 lanes working from offshore to inshore. Location of RA3 verified via conversion of data points into latitude longitude values. Coordinates converted by professional surveyor.

**PREP/INITIAL DATES** (Preparatory and initial dates held and advance notice)  
 No preparatory or initial inspections were held today

**ACTIVITY START/FINISH**  
 No activities were started or finished today

**QC REQUIREMENTS**  
 No QC requirements were completed today

**QA/QC PUNCH LIST** (Describe QC Punch List items issued, Report QC and QA Punch List items corrected)  
 No QC Punch List items were issued today  
 No Punch List items were corrected today

**CONTRACTORS ON SITE** (Report first and/or last day contractors were on site)  
 No contractors had their first or last day on site today

**LABOR HOURS**  

The following labor hours were Reported today:

Employer	Labor Classification	Number of Employees	Hours Worked
Global D and S	LABORERS	10.0	100.0
Huang & Associates	LABORERS	3.0	30.0
Total hours worked to date: 350.0		Total 13.0	130.0

**EQUIPMENT HOURS**  

The following equipment hours were Reported today:

Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total operating hours to date: 160.0		Total 0.0	50.0

**ACCIDENT REPORTING** (Describe accidents)  
 No accidents reported today

**CONTRACTOR CERTIFICATION** On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE



Seattle, WA 98106



TUES.  
Daily Log  
Job #  
W/O # 30872

[illegible]



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 49	Page 1 of 2																												
		<b>DATE</b> 03 Oct 2007 - Wednesday																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>CONTRACTOR</b> Huang & Associates, Inc.	<b>WEATHER</b> Weather Caused No Delay Temperature Min 50 °F, Max 64 °F; No Precipitation; 5 MPH Wind																														
<b>QC NARRATIVES</b>																															
<b>Activities in Progress:</b> Held pre-dive safety brief prior to start of dive activities at location RA3. Discussed goals for sediment removal and requirement for what is to be removed.  Conducted functions test of water treatment system on 173 Barge. Ok.																															
<b>General Comments:</b> Verbal instructions from Mike Gross USACE for areas to be cleared, remove silt to hardpan and do not agitate hardpan area to generate more silt for removal. Hardpan has the ability to silt up with hand agitation.																															
<b>Safety Inspection / Safety Meetings:</b> Inspected floating boom around floating plant for proper function.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																															
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<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 49		Page 2 of 2	
		DATE 03 Oct 2007 - Wednesday			
PROJECT Bradford Island Hazardous Waste Clean Up				CONTRACT NUMBER W9127N-07-C-0017 NA	
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today					
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.					
QC REPRESENTATIVE'S SIGNATURE		DATE		SUPERINTENDENT'S INITIALS	



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW  
Port of Seattle, Terminal 103  
Seattle, WA 98106



## Daily Log

WRI  
Job  
W/O # 30872

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0700	0745	Safety meetings	10-3-07
		ADD ALL LAST MINUTE ITEMS	Customer
		Lots of meetings	P.O./Job Number:
0930		TK. - Float out lines for	Location:
		Perimeter on RA 3	Service
		Lots of corp safety people	Crew
1139		START Pump plugged w/clams	PICK
1200		START pump AGAIN	KIDWELL
1230		MIKE GROSS	DEAN
1255		Secum pump	ERICKSON
1300		CHANGE OUT DIVERS	GALBREATH
1331		GOING DN the Ladder L. ERICKSON	Equipment/Supplies
1430		MOVE to GRID #2	S/S EQUIP AIR
1521		GRID #2 complete	U/W VIDEO
1522		MOVE TO GRID #3	SCUBA
1549		Suit Problem Blown inflator	325
1600		Repair Suits - Fuel up - clean up	5120
			Welder
			etc.
			etc.
			Notes
			more safety issues
			VISITORS corp safety
			Phone:
			Contact:
			Filled out by:
			YES NO
			Quote Provided
			Quote Number:



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 50 <span style="float: right;">Page 1 of 2</span>	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 04 Oct 2007 - Thursday	
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA	
WEATHER Weather Caused No Delay Temperature Min 48 °F, Max 63 °F; No Precipitation; 5 MPH Wind			

**QC NARRATIVES**

**Activities in Progress:**  
 Held daily pre dive safety brief prior to start of dive activities at location RA3.  
 Cleared grid sections 4 thru 7 today. Conducted swim over to verify clearance.

**General Comments:**  
 Found a dead salmon species within boundary of RA3. Specimen looked as if it had been dead for quite some time. Removed carcass from area for onsite Biologist to inspect.

**Safety Inspection / Safety Meetings:**  
 Inspected floating boom around floating plant for proper function.

**PREP/INITIAL DATES** (Preparatory and initial dates held and advance notice)  
 No preparatory or initial inspections were held today

**ACTIVITY START/FINISH**  
 No activities were started or finished today

**QC REQUIREMENTS**  
 No QC requirements were completed today

**QA/QC PUNCH LIST** (Describe QC Punch List items issued, Report QC and QA Punch List items corrected)  
 No QC Punch List items were issued today  
 No Punch List items were corrected today

**CONTRACTORS ON SITE** (Report first and/or last day contractors were on site)  
 No contractors had their first or last day on site today

**LABOR HOURS**

The following labor hours were Reported today:

Employer	Labor Classification	Number of Employees	Hours Worked
Global D and S	LABORERS	10.0	100.0
Huang & Associates	LABORERS	3.0	30.0
Total hours worked to date: 610.0		Total	130.0

**EQUIPMENT HOURS**

The following equipment hours were Reported today:

Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total		0.0	50.0



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 50		Page 2 of 2
		DATE 04 Oct 2007 - Thursday		
PROJECT Bradford Island Hazardous Waste Clean Up		CONTRACT NUMBER W9127N-07-C-0017 NA		
Total operating hours to date: 260.0				
<b>ACCIDENT REPORTING</b> (Describe accidents) <b>No accidents reported today</b>				
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.				
QC REPRESENTATIVE'S SIGNATURE		DATE	SUPERINTENDENT'S INITIALS	DATE



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



## Daily Log

Job

W/O #

30822

Divers • Constructors • Salvors • Environmental Technicians

0658

From	To	Description	Date
			10-4-07
0700		LV. DOCK	Customer
0715		TAILGATE SAFETY meet.	P.O./Job Number:
		Set UP - SWING CRANE to move pump	Location:
		FOR RAIN for RENT	Service
		ADD New CONTAINMENT per CORP Request.	Crew
0807		NEED TO SEND BRZ BOAT to STAGING	PICK
		AREA to pick up Parts?	KIMMEL
			PERICESON
			DEAN
			GALBREATH
0817		LOAD New filter cloth TO Filter	Equipment/Supplies
		BARGE	
0845		L.S. DEAN	
0940		#3 CLEAN RA3 MOVE TO #4 RA3	
0945		173 BARGE HEAVY AT THE BOW	
		Need to process some WATER	Notes
		TALKIN with WAI GONK transfer WATER	Highlighted AREA'S should be CONSIDERED STBY
1000		FOUND A Light Socket	
1005		Commence to Pump.	
1058		STOP Pump 110 BARGE Full / UNSTABLE	Phone:
1101		DEAN L.B.	Contact:
1105		STBY	Filled out by: PICK
			YES NO
			Quote Provided
			Quote Number:



Seattle, WA 98106



~~W/O #~~

30872

From	To	Description	Date
1225	1247	ALL ABOARD FLASHER TO GO TO DOCK TO PICK UP URS	10-4-07
1305	1333	BACK ON FLASHER TO DROP OFF URS	Customer _____ P.O./Job Number: _____
1400		#4 completed TAZ move to #5	Location: _____
1421		#5 completed <sup>NEED VIDEO</sup> move to #6	Service _____
1454		MOVE INTO #7 RAZ 35' x 35'	Crew _____
1548		RA3 DREDGED NEED VIDEO ON 4567	_____
1613		RA3 completed	_____
1619		L.B. ERICKSON	Equipment/Supplies _____
		clean up	_____
			_____
			_____
			_____
			_____
			_____
			Notes _____
			_____
			_____
			_____
			Phone: _____
			Contact: _____
			Filled out by: _____
			YES NO
			Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 51 <span style="float: right;">Page 1 of 1</span>	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 05 Oct 2007 - Friday	
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA	
WEATHER Weather Caused No Delay Temperature Min 48 °F, Max 60 °F; No Precipitation; 5 MPH Wind			

**QC NARRATIVES**  
  
**Activities in Progress:**  
 Prepared floating plant for movement to RA1, moved and set in area in preparation for monday dive activities.  
  
 RA3 complete removed all grid lines from area.  
  
 Changed sand out from sand filtration tanks. No in water work today.

**PREP/INITIAL DATES** (Preparatory and initial dates held and advance notice)  
 No preparatory or initial inspections were held today

**ACTIVITY START/FINISH**  
 No activities were started or finished today

**QC REQUIREMENTS**  
 No QC requirements were completed today

**QA/QC PUNCH LIST** (Describe QC Punch List items issued, Report QC and QA Punch List items corrected)  
 No QC Punch List items were issued today  
 No Punch List items were corrected today

**CONTRACTORS ON SITE** (Report first and/or last day contractors were on site)  
 No contractors had their first or last day on site today

**LABOR HOURS**  
 The following labor hours were Reported today:
 

Employer	Labor Classification	Number of Employees	Hours Worked
Global D and S	LABORERS	7.0	70.0
Global D and S	CARPENTER, PILEDRIVERMEN	2.0	20.0
Global D and S	HEAVY-EQUIPMENT OPERATOR	1.0	10.0
Huang & Associates	LABORERS	3.0	30.0
Total		13.0	130.0

Total hours worked to date: 740.0

**EQUIPMENT HOURS**  
 The following equipment hours were Reported today:
 

Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total		0.0	50.0

Total operating hours to date: 310.0

**ACCIDENT REPORTING** (Describe accidents)  
 No accidents reported today

**CONTRACTOR CERTIFICATION** On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



THU DAY

## Daily Log

Job

W/O #

30872

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0655		LV. DOCK	10-5-07
0703		safety meet.	Customer
		GET READY TO Peel off 173 to move to vac truck	P.O./Job Number:
			Location: Bonneville DAM
			Service Supply Barges & CRANE Service for HAI
0730		INformed I need to TAKE A CRANE	Crew
0901		AT STAGING AREA STBY	PICK
1240		STILL AT STAGING AREA STBY	Kiowell
1400		LV. STAGE AREA	ERICKSON
1401		TRAVEL TO RAI WITH ALL	GALBREATH
		BARGES - NO RECON DUE to	DEAN
		Earlier Schedule	BARTLETT
1430		Drifting in to position as best I	Equipment/Supplies
		CAN tell	
1434		ON LOCATION Droppin SPUDS	Notes
1500		ON SPUDS AND Anchors	Hendren Holding us IN
1501		Pulling BOOM	CRANE SERVICE
1519		W BOOMED in securing for the	OUR people Assist HAI
		Use KEND. Sewer Wrenches - clean CONTAINMENT	Phone:
		SLACK SPUDS - Special ATT to Hendren	Contact:
		Notice DUE to GRRR b LEAK	Filled out by: PICK
			YES NO
			Quote Provided
			Quote Number:



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> <b>54</b>	<b>Page 1 of 2</b>																												
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 08 Oct 2007 - Monday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 54 °F, Max 64 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>																															
<b>Activities in Progress:</b> Finalized setup over RA1, starting removal activities from west end moving easterly. Area is being worked from the downcurrent side to the upcurrent end. After areas have sediment removed a swim over is conducted and approval is verified for sediment removal action. Removed sediment from approximately 1200sqft.																															
<b>General Comments:</b> Inspected all containment areas, used absorbent pads to remove any sheen from surface water within containments and pumped standing water through water treatment system.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																															
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<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 54		Page 2 of 2	
		DATE 08 Oct 2007 - Monday			
PROJECT Bradford Island Hazardous Waste Clean Up				CONTRACT NUMBER W9127N-07-C-0017 NA	
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today					
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.					
QC REPRESENTATIVE'S SIGNATURE		DATE	SUPERINTENDENT'S INITIALS		DATE



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



## Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0650		LV. DOCK	10/8/07
0701		Safety meeting	Customer <u>HAI</u>
		Set up/CHECK CONTAINMENT KNOCK DN.	P.O./Job Number: _____
		Sheets in containment	Location: <u>Bonneville DAM</u>
0804		T.K. L.S. Lots of Ropes and	Service _____
		Cables / FOUL HAZARD	Crew <u>PICK</u> <u>BARTLETT</u>
0810		SEND RND	<u>KIDWELL</u>
0815		T.K. LB	<u>ERICKSON</u>
0830		T.K. L.S.	<u>DEAN</u>
0840		GRID INSTALLED (OUTER BOUNDARY)	<u>GALBREATH</u>
0850		SEND PVC GRID	<u>JOSEPH</u>
0900		SEND HOSE	Equipment/Supplies _____
0909		Pump HOT SULKIN Silt.	Notes _____
		1st 10' x 5' compl. 2nd 10 x 5 comp 3rd 10 x 5 compl.	50 x 5 = 250
1027		@ WATERS EDGE DREDGED APPROX 50 x 5	250 SQ FT
		STEEP BANK @ WATER'S EDGE DIFFICULT	
		SEDIMENT REMOVAL AREA	Phone: _____
1125		- 350 SQ FT. CHANGE OUT DIVERS	Contact: _____
		AFTER DECON	Filled out by: _____
			YES NO
			Quote Provided
			Quote Number: _____



## Global Diving &amp; Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106

CONTINUED



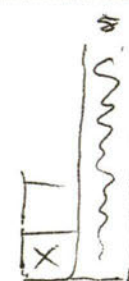
MONDAY

Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
1155		M. DEAN DRESSING	10/8/07
1200		DEAN L.S. CONT. IN RAI	Customer _____ P.O./Job Number: _____
		CHANGE OUT Suction head to larger type	Location: _____
1400		LANE 3 complete move to Lane #4	Service _____
		900 SQ FT completed	Crew _____
1430		ROCK IN PUMP	_____
		PUMP DOWN	_____
1512		L.B. M. DEAN	Equipment/Supplies _____
1548		PUMP ONLINE	_____
1550		PUMPING SHALLOW AREA ONST.	_____
		ON RAI	_____
1630		SHUT DN. PUMP CLEAN UP	_____
		1100 SQ FT	Notes _____
1655		HEAD TO THE DOCK	_____
			Phone: _____
			Contact: _____
			Filled out by: _____
			YES NO
			Quote Provided
			Quote Number: _____



50'



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 55	Page 1 of 2
		<b>DATE</b> 09 Oct 2007 - Tuesday	
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA	
<b>CONTRACTOR</b> Huang & Associates, Inc.	<b>WEATHER</b> Weather Caused No Delay Temperature Min 52 °F, Max 67 °F; No Precipitation; 5 MPH Wind		
<b>QC NARRATIVES</b>			
<b>Activities in Progress:</b> Continued sediment removal from RA1 working from downstream to upstream to prevent migration of any sediment outside of work area.			
<b>General Comments:</b> USACE and other regulatory agencies provided access onto floating plant for tour and explanation as to work process and results from sediment removal. General consensus while on floating plant from visitors is that work is moving well and being conducted in an appropriate manner. HALand Global are Preparing for Media day scheduled on 10/10/07.			
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today			
<b>ACTIVITY START/FINISH</b> No activities were started or finished today			
<b>QC REQUIREMENTS</b> No QC requirements were completed today			
<b>QA/QC PUNCH LIST</b> (Describe QC Punch List items issued, Report QC and QA Punch List items corrected) No QC Punch List items were issued today No Punch List items were corrected today			
<b>CONTRACTORS ON SITE</b> (Report first and/or last day contractors were on site) No contractors had their first or last day on site today			
<b>LABOR HOURS</b> The following labor hours were Reported today:			
Employer	Labor Classification	Number of Employees	Hours Worked
Global D and S	LABORERS	7.0	70.0
Global D and S	CARPENTER, PILEDRIVERMEN	2.0	20.0
Global D and S	HEAVY-EQUIPMENT OPERATOR	1.0	10.0
Huang & Associates	LABORERS	3.0	30.0
Total hours worked to date: 1,000.0		Total	130.0
<b>EQUIPMENT HOURS</b> The following equipment hours were Reported today:			
Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total operating hours to date: 410.0		Total	50.0



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 55		Page 2 of 2	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 09 Oct 2007 - Tuesday			
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today		CONTRACT NUMBER W9127N-07-C-0017 NA			
<b>CONTRACTOR CERTIFICATION</b>		On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.			
QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE		





# Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0659		LV. DOCK	10-9-07
0709		Safety meeting	Customer <u>HAI</u>
		Pump containments to steel barrels	P.O./Job Number: _____
		Locate wooden float for HAI	Location: <u>Bonneville Dam</u>
0830		Set up HATS for Dive	Service _____
0849		M. DEAN L.S. CONT' in 4th GRID	Crew <u>PICK</u> <u>BARTWELL</u>
		15'-20' UPSTREAM of DISTIN BOUNDARY	<u>K. OWELL</u>
0919		4th GRID complete / move to 5th GRID	<u>GALBRAITH</u>
0944		5th GRID complete / move to 6th	<u>DEAN</u>
1015		Found Elec. motor item #1 in	<u>ERICKSON</u>
		6th GRID Approx 30' UPSTREAM of DISTIN	<u>JOSEPH</u>
		BOUNDARY AND 25' off of BEACH	Equipment/Supplies _____
		BOUY INSTALLED 50lbs MAX weight	_____
1025		Commence sediment removal	Notes _____
1035		Grid #6 complete / move to #7	_____
		(700 SQ FT REMOVED)	_____
1113		Completed #7 950 SQ FT completed	Phone: _____
		RINSIN HOSE STAGE AM GRAB	Contact: _____
		IN LAKE #8	Filled out by: <u>PICK</u>
			YES NO
			Quote Provided
			Quote Number: _____



Seattle, WA 98106

~~FRIDAY~~  
CONTINUED



## Daily Log

W/O #

**Divers • Constructors • Salvors • Environmental Technicians**

[illegible]



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 56 <span style="float: right;">Page 1 of 1</span>																													
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 10 Oct 2007 - Wednesday																													
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA																													
WEATHER Weather Caused No Delay Temperature Min 53 °F, Max 64 °F; 0.1 IN Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Continued removal action of sediment from RA1 western end. REverified boundaries and set up additional lanes moving to the east.  Floating plant in the AM was reset to adjust location of dive barge to dive area.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																															
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<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today																															
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.																															
QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE																												



**Global Diving & Salvage, Inc.**

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



VUE DIVERS DAY

**Daily Log**

 W/O# 30872

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0645		Meet w/ MARK HALLOK over BOUNDARY ISSUES	10/10/07
0745		MOSE BARGE	Customer _____ P.O./Job Number: _____
1015		MOVED / Boomed in / ready to dive	Location: <u>Bonneville Dam</u>
1032		TK L.B.	Service _____
1053		Hot Pump lower end of RA1 Remove 600 SQ FT	Crew <u>PICK</u> <u>BARTRETT</u> <u>KIDWELL</u> <u>GRIFFIN</u> <u>ERICKSON</u> <u>DEAN</u> <u>JOHNSON</u>
1241		TK. L.B.	Equipment/Supplies _____
1303		CHANGE OUT DIVERS MIKE DEAN L.S.	Notes _____
1355		STOP set more GRID	
1400		M.D. L.B. RUN GRID ROPE	
1449		M.D. L.S. Run Grid	
1631		START PUMP	
1644		M.D. L.B. Back to the Dock	Phone: _____ Contact: <u>PICK</u> Filled out by: _____ YES NO Quote Provided Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 57 <span style="float: right;">Page 1 of 1</span>																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 11 Oct 2007 - Thursday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 52 °F, Max 60 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>  <b>General Comments:</b> Inspected floating plant for leaks, spills etc. no issues today. removed standing water from containment areas and pumped into water filtration system.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																															
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<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today																															
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.																															
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## Daily Log

WIO# 30872

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0659		LV. DOCK	10-11-07
		Safety Pre Dive meeting	Customer
			P.O./Job Number:
0805		L. FELLKON L.S. SEDIMENT REMOVAL	Location:
		IN RA1 Between PT'S 9, 10, 11	Service
		AND BACK TO THE BEACH	Crew
0927		75' x 75' AREA 9 10 11 TO BEACH	
		Completed TOTAL OF 5625 ft.	
		Between 10/10/07 to 10/11/07	Equipment/Supplies
1107		LB LANDON +6005QFT	
1110	1115	Clean up GRID LINES AND BOUY @	
		PT #10 Leave BOUY @ PT #11	
		STBY For COORDINATES - 1127 got em	
		STBY for HAI Q. to get his GPS from	Notes
		Beach for SPOTTING #12 PT.	
1228		We're Back From Setting #12	
		Joe Pick, NOAH RIVERA, DAN MANSUR	
1239		T.K. L.S. TO SHORE UP GRID LINES	Phone:
			Contact:
1255		START pump 7450 sq ft	Filled out by:
1523		STOP Pump	YES NO
1525		LB TK	Quote Provided
			Quote Number:



Seattle, WA 98106



TWASDAY

## Daily Log

W/O # \_\_\_\_\_

**Divers • Constructors • Salvors • Environmental Technicians**

Divers • Constructors • Salvors • Environmental Technicians			
From	To	Description	Date
		TK DRESS OUT	Customer _____ P.O./Job Number: _____
		MIKE DEAN IN DIVE SUIT REMAIN	Location: _____
		SEDIMENT IN SHALLOW WATER	Service _____
1045		LOAD BOAT TO RETURN TO	
		SHORE	Crew _____ _____ _____ _____ _____
			Equipment/Supplies _____ _____ _____ _____ _____ _____ _____
			Notes _____          
			Phone: _____
			Contact: _____
			Filled out by: _____
			YES NO Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 58	Page 1 of 2
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 12 Oct 2007 - Friday	
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA	
<b>WEATHER</b> Weather Caused No Delay Temperature Min 54 °F, Max 62 °F; No Precipitation; 5 MPH Wind			
<b>QC NARRATIVES</b>			
<b>Activities in Progress:</b> Continued sediment removal from RA1 working from the east to the west end of Bradford Island.  Moved floating plant farther east in RA1 minor adjustments made to floating plant location.  2 dive shifts today.			
<b>General Comments:</b> Issue came up with main suction pump. Stopped dive activities while pump was being checked for problems. (Loss of suction)  Previously tagged electrical motor removed from water and double bagged and placed in drum onshore for pickup by Bonneville project personnel.			
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today			
<b>ACTIVITY START/FINISH</b> No activities were started or finished today			
<b>QC REQUIREMENTS</b> No QC requirements were completed today			
<b>QA/QC PUNCH LIST</b> (Describe QC Punch List items issued, Report QC and QA Punch List items corrected) No QC Punch List items were issued today No Punch List items were corrected today			
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Global D and S	CARPENTER, PILEDRIVERMEN	2.0	20.0
Huang & Associates	LABORERS	3.0	30.0
Total hours worked to date: 1,360.0		Total 12.0	120.0
<b>EQUIPMENT HOURS</b>			
The following equipment hours were Reported today:			
Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total operating hours to date: 560.0		Total 0.0	50.0



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 58		Page 2 of 2	
		DATE 12 Oct 2007 - Friday		CONTRACT NUMBER W9127N-07-C-0017 NA	
PROJECT Bradford Island Hazardous Waste Clean Up					
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today					
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.					
QC REPRESENTATIVE'S SIGNATURE		DATE	SUPERINTENDENT'S INITIALS		DATE





# Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date	Customer	P.O./Job Number:	Location:	Service	Crew	Equipment/Supplies	Notes	Phone:	Contact:	Filled out by:	YES	NO	Quote Provided	Quote Number:
0659		W. DOCK	10/12/07														
0711		safety meet.															
0730		MOVIN BARGE				Bonneville Dam											
0825		ON site / small adjustments															
0850		PRE DIVE															
0910		M.D. L.S.						PICK P. JOSEPH KIDWELL B. BARTLETT ERICKSON M. DEAN GALBREATH									
0950		SEND Pump hose															
0951		START PUMP 4x60															
		5x30															
1218		M.D. LB															
		CHANGE out Divers / DECON															
1245		L ERICKSON L.S.															
1430		Pump prob 40 X 60 complete															
1500		clean off rocks in SHALLOW H2O															
1530		ZONE #3 completed															
		Pick up Electric Motor in Zone #1															
		Pump All Containment WATER to Barrels															
		Fuel All EQUIPMENT															
		TAKE ALL TRASH OFF															
		MOVE BARGE to SPUD depth for weekend															



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 61	Page 1 of 2																												
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 15 Oct 2007 - Monday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 53 °F, Max 64 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>																															
<b>Activities in Progress:</b> Continued sediment removal from RA 1, removal activities stopped this AM due to pump malfunction. Pumps swapped out diver back in water for 2nd shift at 1545 hours.  Switched 4" pump for 6" pump, 6" pump could not start suction switched for additional 4" pump. Serviced this pump and continued removal activities in RA1.  Dive operations shut down from 1030am-1545.																															
<b>Safety Inspection / Safety Meetings:</b> All containments inspected prior to equipment startup. Any visible sheen absorbed using absorbent pads.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																															
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<b>QA/QC PUNCH LIST</b> (Describe QC Punch List items issued, Report QC and QA Punch List items corrected) No QC Punch List items were issued today No Punch List items were corrected today																															
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<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 61 <span style="float: right;">Page 2 of 2</span>	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 15 Oct 2007 - Monday	
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today		CONTRACT NUMBER W9127N-07-C-0017 NA	
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.			
QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



MONDAY  
Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0700		LV. DOCK	10/15/07
		TAILGATE meeting	Customer _____
			P.O./Job Number: _____
0735		MOVE Barge UPSTREAM 90'	Location: _____
		RAIN for RENT mechanic ONBOARD	Service _____
		ITM NOT SURE who called him	Crew
0800		Barge moved	PILK/TUPANA
		MECHANIC still working on pump	KIDWELL
			COALBREATH
			ERICKSON
			DEAN
			BARTLETT JOSEPH
0840		PRE-DIVE meet.	Equipment/Supplies
0854		TK. L.S.	
0920		HOT on the Pump Cleanbill of WASH. St. Mechanic	
0954		LOST SUCTION CAN'T pick up A PRIME	
1010		TK. L.B.	
		STBY for CRANE OPERATOR STUCK	Notes
		@ SWING BRIDGE	
1026		SWING to change out 4" TO 6" Pump	
1102		TK. L.S. 126 RNT	
1131		TK L.B NO PUMPING	Phone: _____
		STBY for mechanic	Contact: _____
		CHANGE OUT DIVERS	Filled out by: _____
			YES NO
			Quote Provided
			Quote Number: _____



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



MONDAY

## Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
1250		Swing 4" BATA to BUCARER	10/15/07
		STBY for mechanic - on site	Customer P.O./Job Number: _____
1339		3rd pump seems to work	Location: _____
		Dress in Divers (I need my crew to do all crane work so that's why they're not dressed in)	Service _____
		#3 pump QUIT RUNNING due to fuel tank is half full of water	Crew _____
1500		#3 Pump is Running	Equipment/Supplies _____
		Dress in Diver	_____
1512		M.D.L.S.	_____
1631		STOP Pumping	_____
1633		M.D. L.B.	Notes _____
		Clean up / get crew to Dock ASAP.	_____
			_____
			_____
			Phone: _____
			Contact: _____
			Filled out by: _____
			YES NO
			Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 62 <span style="float: right;">Page 1 of 1</span>																													
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 16 Oct 2007 - Tuesday																													
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA																													
WEATHER Weather Caused No Delay Temperature Min 48 °F, Max 60 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Continued removal activities in RA1 working from upstream to downstream. Small electrical components found, removed from area and placed in storage bin on shore.  <b>General Comments:</b> Conducted daily walkaround of floating plant to inspect for leaks and or spills. None found. Filtration system working very well.																															
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<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today																															
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.																															
QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE																												



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



TUESDAY

## Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
07:15		On Work site / left dock @ 0700	10/16/07
		Setting up to Dive	Customer _____
			P.O./Job Number: _____
07:40		TAILgate meeting	Location: _____
08:07		Landon Erickson LS / PCB Removal #17	Service _____
08:17		Beginning PCB Removal	Crew _____
08:30		4" pump suction work	Dennis Sugawa
08:49		4" pump Back on line / Intake good - problem @ Rain Tanks	A. G. B. B. B. B.
10:16		Removal of Electrical panels	Tommy Kidwell
11:17		Landon Erickson RS Dive #17 / Change out divers	M. Dean
11:47		DVR #2 Tommy Kidwell LS / Dr #18	L. Erickson
11:58		Sucking sediment	Equipment/Supplies _____
13:52		DVR #2 Tom Kidwell RS	Notes _____
14:15		DVR #3 Mike Dean LS / #19	Prime Contractor / Fuelled Generators @ 1400 (HFI)
14:17		Sucking sediment	Phone: _____
16:13		Mike Dean W/B / Deco 50/120	Contact: _____
16:20		Mike Dean RS	Filled out by: _____
17:00		OFF Work site	YES NO Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 63 <span style="float: right;">Page 1 of 1</span>	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 17 Oct 2007 - Wednesday	
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA	
WEATHER Weather Caused No Delay Temperature Min 47 °F, Max 60 °F; No Precipitation; 7 MPH Wind			

**QC NARRATIVES**

**Activities in Progress:**  
Continued removal activities at RA1. Material at this location is not extremely thick, making good progress towards completion of this location.

**General Comments:**  
Moved floating plant towards end of day due to possible inclement weather (high winds). Secured floating plant near RA3 location, this areas is more protected from the wind.

**PREP/INITIAL DATES** (Preparatory and initial dates held and advance notice)  
No preparatory or initial inspections were held today

**ACTIVITY START/FINISH**  
No activities were started or finished today

**QC REQUIREMENTS**  
No QC requirements were completed today

**QA/QC PUNCH LIST** (Describe QC Punch List items issued, Report QC and QA Punch List items corrected)  
No QC Punch List items were issued today  
No Punch List items were corrected today

**CONTRACTORS ON SITE** (Report first and/or last day contractors were on site)  
No contractors had their first or last day on site today

**LABOR HOURS**

The following labor hours were Reported today:

Employer	Labor Classification	Number of Employees	Hours Worked
Global D and S	LABORERS	6.0	70.0
Global D and S	CARPENTER, PILEDRIVERMEN	3.0	30.0
Huang & Associates	LABORERS	2.0	20.0
Total hours worked to date: 1,720.0		Total 11.0	120.0

**EQUIPMENT HOURS**

The following equipment hours were Reported today:

Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total operating hours to date: 710.0		Total 0.0	50.0

**ACCIDENT REPORTING** (Describe accidents)  
No accidents reported today

**CONTRACTOR CERTIFICATION** On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE
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# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



WED

## Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0700		ON DECK / NEED TO MOVE	10/17/07
0830		WE'RE OUT OF GAS / GAS ARRIVES	Customer _____ P.O./Job Number: _____
1100		WE'RE ON 5TH GRID / PULLING BOOM	Location: _____
1120		BOOM BACK IN PLACE	Service _____
1140		L.E. L.S. Diver #20 in GRID #5	Crew PICK _____ BARTlett KIDWELL FRICKSON DEAN GALORATH JOSEPH
1336		L.B. 50/140 :10 @ 10'	
1339		@ 10'	
1349		LV. 10' R.S.	Equipment/Supplies _____
		CHANGE OUT DIVERS / FUEL UP COMPRESSOR	
1409		T.K. L.S. 35'-40' EAST of Dock	
1500		BAD WEATHER coming need to move	
1506		TK L.S.	
1657		WE'RE MOVED AND SECURE WITH BOOM	Notes _____
		SHUTTING HER DOWN	All GAS went to FLASHER ON 10/16/07 NO GAS for winches (HAD Buy GAS)
1720		@ DOCK	Deep WATER NO SPURS
			Phone: _____
			Contact: _____
			Filled out by: PICK
			YES NO
			Quote Provided
			Quote Number: _____

15-30

W 5-15



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 64 <span style="float: right;">Page 1 of 1</span>																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 18 Oct 2007 - Thursday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 47 °F, Max 62 °F; 0.2 IN Precipitation; 13 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Working RA3, boundaries verified via survey, previously removed sediment from area just west of RA 3. Area previously covered will be noted on the Final project as built. Sediment removal completed from RA3  <b>General Comments:</b> Inspected containments and pumped down filled areas due to previous heavy rains. All water being pumped through water filtration system.  There is the possibility for strong winds floating plant being secured for the weekend at RA3 location.																															
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# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



1 hrs.  
Daily Log

W/O # 30872

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0630		@ MAINTENANCE office for clearances	10/18/07
0700		LV. DOCK	Customer P.O./Job Number:
0714		ONBOARD	Location:
		Tailgate meet. / pre dive meet.	Service
		set up	Crew PICK KIDWELL GALLOPETH M. DEAN ERICKSON Joseph
		CONTAINMENT ISSUES were brought	Equipment/Supplies
		up by corp Reps so we need to	
		pump off all containment lots of rain	
0814		MIKE DEAN L.S. WORKING RA3	
		AGAIN	
0905		WIND is building STEADY 15 mph	Notes
		still blowing	
1034		ALMOST 1/2 complete @ RA3	
1106		M. DEAN L.B.	
		CHANGE OUT DIVERS	
1134		LONDON ERICKSON L.S.	Phone:
		6" + MATERIAL IN RA3	
1340		CONT. PUMPING	Contact:
1455		L. ERICKSON L.B.	Filled out by:
			YES NO
			Quote Provided
			Quote Number:



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



THURS.  
Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
1515		Need to pump off All HAZ CONTAINMENT	10/18/07
		CLEAN UP BARGE / OIL SHEEN	Customer _____ P.O./Job Number: _____
1630		KNOCK OFF LANDON - MIKE DEAN	Location: _____
		AND ADAM	Service _____
		STBY FOR HAI to PROCESS WATER	Crew _____ _____ _____ _____ _____
			Equipment/Supplies _____ _____ _____ _____ _____ _____ _____
			Notes _____ _____ _____ _____ _____ _____ _____
			Phone: _____
			Contact: _____
			Filled out by: _____
			YES NO
			Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 65		Page 1 of 1
		DATE 19 Oct 2007 - Friday		
PROJECT Bradford Island Hazardous Waste Clean Up		CONTRACT NUMBER W9127N-07-C-0017 NA		
CONTRACTOR Huang & Associates, Inc.		WEATHER Non Work Day Temperature Min 52 °F, Max 64 °F; No Precipitation; 8 MPH Wind		
<b>QC NARRATIVES</b> No QC Narratives were reported today				
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today				
<b>ACTIVITY START/FINISH</b> No activities were started or finished today				
<b>QC REQUIREMENTS</b> No QC requirements were completed today				
<b>QA/QC PUNCH LIST</b> (Describe QC Punch List items issued, Report QC and QA Punch List items corrected) No QC Punch List items were issued today No Punch List items were corrected today				
<b>CONTRACTORS ON SITE</b> (Report first and/or last day contractors were on site) No contractors had their first or last day on site today				
<b>LABOR HOURS</b> No labor hours were Reported today Total hours worked to date: 1,840.0				
<b>EQUIPMENT HOURS</b> No equipment hours were Reported today Total operating hours to date: 760.0				
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today				
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.				
QC REPRESENTATIVE'S SIGNATURE		DATE	SUPERINTENDENT'S INITIALS	DATE



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 68 <span style="float: right;">Page 1 of 1</span>																													
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 22 Oct 2007 - Monday																													
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA																													
WEATHER Weather Caused No Delay Temperature Min 52 °F, Max 70 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>																															
<b>Activities in Progress:</b> Pumped out and removed water from containment areas, water removed pumped into treatment system.  Worked in RA1 removing sediment near Bradford Island east end. Cleared approximately 7700sqft of area.																															
<b>General Comments:</b> Conducted prework floating plant walk around. No issues found. All valves for water holding tanks reopened and ready for work.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
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**Global Diving & Salvage, Inc.**

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106


**Daily Log**

 W/O # 30872
**Divers • Constructors • Salvors • Environmental Technicians**

From	To	Description	Date
0700		LV. DOCK	10/22/07
0710		NEED TO PUMP OUT $\frac{1}{2}$ TREAT CONTAINMENT	Customer <u>30872</u>
		ALL FULL	P.O./Job Number:
			Location:
0724		START PULLING WIRES FOR MOVE	Service
0935		ANCHORED IN BOOM AROUND	
		Suction hose pulled to farthest	Crew <u>KIDWELL</u>
		UPSTREAM CORNER	<u>DICK</u>
			<u>GALBREATH</u>
			<u>ERIKSON</u>
			<u>DEAN</u>
			<u>BARTLETT - Joseph</u>
0936		PRE-DIVE MEET.	Equipment/Supplies
0945		T.K. IN WATER	
1000		L.S. TK	
1014		LOST COMM	
1019		COMMS REESTABLISHED	
1223		TK L.B. NEED TO TIE OFF HOSE	Notes
1303		MD L.S.	
		WORK DOWNSTREAM TO # 12 BOUY	
1530		Suction head broke	Phone:
1537		M.D. L.B. Approx 7700 sq ft.	Contact:
			Filled out by:
			YES NO
			Quote Provided
			Quote Number:



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 69 <span style="float: right;">Page 1 of 1</span>	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 23 Oct 2007 - Tuesday	
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA	
WEATHER Weather Caused No Delay Temperature Min 48 °F, Max 65 °F; No Precipitation; 20 MPH Wind			

**QC NARRATIVES**  
  
**Activities in Progress:**  
 Continued and finished removal activities in RA1.  
 Floating plant moved closer to dam near RA3 and reanchored for possible high winds on Wednesday.  
  
**General Comments:**  
 Visitors onboard for walk around. DEQ, Tribal representative and USACE personnel onboard to visit and observe operations.  
  
 Also inspected and prepared floating plant for possible high winds.

**PREP/INITIAL DATES** (Preparatory and initial dates held and advance notice)  
 No preparatory or initial inspections were held today

**ACTIVITY START/FINISH**  
 No activities were started or finished today

**QC REQUIREMENTS**  
 No QC requirements were completed today

**QA/QC PUNCH LIST** (Describe QC Punch List items issued, Report QC and QA Punch List items corrected)  
 No QC Punch List items were issued today  
 No Punch List items were corrected today

**CONTRACTORS ON SITE** (Report first and/or last day contractors were on site)  
 No contractors had their first or last day on site today

**LABOR HOURS**  
 The following labor hours were Reported today:
 

Employer	Labor Classification	Number of Employees	Hours Worked
Global D and S	LABORERS	6.0	70.0
Global D and S	CARPENTER, PILEDRIVERMEN	3.0	30.0
Huang & Associates	LABORERS	2.0	20.0
Total hours worked to date: 2,080.0		Total 11.0	120.0

**EQUIPMENT HOURS**  
 The following equipment hours were Reported today:
 

Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total operating hours to date: 860.0		Total 0.0	50.0

**ACCIDENT REPORTING** (Describe accidents)  
 No accidents reported today

**CONTRACTOR CERTIFICATION** On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

QC REPRESENTATIVE'S SIGNATURE	DATE	SUPERINTENDENT'S INITIALS	DATE
-------------------------------	------	---------------------------	------



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



## Daily Log

W/O # 30872

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0700		LV. DOCK	10/23/07
0715		PRE DIVE HAI TAILGATE Meeting	Customer _____ P.O./Job Number: _____
		DIVERS Dress in	Location: _____
0757		L.E. L.S.	Service _____
		Working in GRID #6	Crew <u>PIKE</u> <u>Bartlett</u> <u>KIDWELL</u> <u>ERICKSON</u> <u>DEAN</u> <u>CALDWELL</u> <u>JOSEPH</u>
		Visitors onboard Dea etc etc.	Equipment/Supplies _____
1121		L.B. - LAMPON	_____
		Visitors onboard Dea etc etc.	_____
		MOVE BARGE (Mountain Gests to beach)	_____
1300		TK Dress in	_____
1305		TK L.S.	_____
1532		RA 1 completed	Notes _____
		2 minute safety stop	_____
		CLEAN UP DIVE STATION GET READY	_____
		to PARK BARGE UNTIL THURSDAY	_____
1730		KNOCK OFF	Phone: _____ Contact: _____ Filled out by: _____ YES NO Quote Provided Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 70 <span style="float: right;">Page 1 of 1</span>																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 24 Oct 2007 - Wednesday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 47 °F, Max 60 °F; No Precipitation; 20 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Non dive day due to high winds.  Equipment maintenance performed and depth soundings taken to determine possible anchor points for RA2 location.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																															
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# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



VV Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0800		@ DOCK DICK, JOSEPH, KIDWELL	10/24/07
		DAN MANSUR USACOR - NOAH RIVERA	Customer _____
		HAI -	P.O./Job Number: _____
		CLEAN STRAINERS ON FLASHER	Location: _____
0845		ONBOARD PLANT - FIX DIESEL	Service _____
		LEAK ON 5120	Crew _____
		CHANGE OUT FUEL FILTERS BOTH	_____
		DECK WINCHES	_____
		Pickup All our Boys.	Equipment/Supplies _____
		TAKE SOUNDINGS WITH FLASHER IN	_____
		RAZ	_____
		Set up new Dive suit	_____
		Fuel up EQUIPMENT	Notes _____
		CLEAN OUT JET NOZZLES ON FLASHER	_____
			_____
			_____
		* NO DIVE CLEARANCE IN	Phone: _____
		CORNER Short crew	Contact: _____
		SHORT DAY	Filled out by: _____
			YES NO Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 71 <span style="float: right;">Page 1 of 2</span>	
PROJECT Bradford Island Hazardous Waste Clean Up		DATE 25 Oct 2007 - Thursday	
CONTRACTOR Huang & Associates, Inc.		CONTRACT NUMBER W9127N-07-C-0017 NA	
WEATHER Weather Caused No Delay Temperature Min 45 °F, Max 60 °F; No Precipitation; 15 MPH Wind			

**QC NARRATIVES**  
  

**Activities in Progress:**  
 Resetting floating plant near RA2 anchor lines out and secured, no spuds made contact with river bottom.  
 Started sediment removal activities in RA2, gridlines established and boundaries marked.

**General Comments:**  
 Walked floating plant to inspect for any wind damage or movement of equipment and supplies. All ok. Winds today still higher than previous days.  
 Moved floating plant closer to shore at end of day to secure for the evening.

**PREP/INITIAL DATES** (Preparatory and initial dates held and advance notice)  
 No preparatory or initial inspections were held today

**ACTIVITY START/FINISH**  
 No activities were started or finished today

**QC REQUIREMENTS**  
 No QC requirements were completed today

**QA/QC PUNCH LIST** (Describe QC Punch List items issued, Report QC and QA Punch List items corrected)  
 No QC Punch List items were issued today  
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**CONTRACTORS ON SITE** (Report first and/or last day contractors were on site)  
 No contractors had their first or last day on site today

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The following labor hours were Reported today:

Employer	Labor Classification	Number of Employees	Hours Worked
Global D and S	LABORERS	6.0	70.0
Global D and S	CARPENTER, PILEDRIVERMEN	3.0	30.0
Huang & Associates	LABORERS	2.0	20.0
Total hours worked to date: 2,230.0		Total 11.0	120.0

**EQUIPMENT HOURS**  

The following equipment hours were Reported today:

Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total operating hours to date: 960.0		Total 0.0	50.0



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 71		Page 2 of 2	
		DATE 25 Oct 2007 - Thursday			
PROJECT Bradford Island Hazardous Waste Clean Up		CONTRACT NUMBER W9127N-07-C-0017 NA			
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today					
<b>CONTRACTOR CERTIFICATION</b> On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.					
QC REPRESENTATIVE'S SIGNATURE		DATE	SUPERINTENDENT'S INITIALS		DATE



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



## Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0630		STBY for clearance cards	10/25/67
0730		ON BOAT STBY for DIVER BATTING	Customer <u>HAI</u>
		BADGED	P.O./Job Number: _____
0740		ON BOARD UNLOAD SUPPLIES AND	Location: <u>DONNEVILLE DAM</u>
		DIVE GEAR	Service _____
0845		ON LOCATION	Crew <u>PICK</u> <u>BARTLETT</u>
0930		Setting GRID Lines Loading up people	<u>KOWELL</u> <u>JOSEPH</u>
		Filter prob's notified by NOAH R	<u>GALBREATH</u>
		We CAN swim DIVE to get clams AND	<u>DEAN</u>
		Set GRID Lines / Filters A.O.K.	<u>ERICKSON</u>
1010		T.K. L.S. SET GRIDS IN RAZ	<u>PORTER</u>
1035		Hot Pump	Equipment/Supplies _____
1240		T.K. L.B.	Notes _____
		CHANGE OUT DIVERS	
1302		L.E. L.S.	
		CONTINUE IN RAZ	
1605		L.E. LB	Phone: _____
		Securing for the night	Contact: _____
			Filled out by: _____
			YES NO Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 72 <span style="float: right;">Page 1 of 1</span>																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 26 Oct 2007 - Friday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 45 °F, Max 62 °F; No Precipitation; 25 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Continued sediment removal at RA2 location. Collecting clams per request of the USACE for delivery to URS for testing. Not having much success finding clams in the east area of RA2.  <b>General Comments:</b> Strong winds today, keeping close observation of wind speeds. some gusts up to 35mph observed.  Floating plant moved in shore to secure spuds to river bottom.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
<b>ACTIVITY START/FINISH</b> No activities were started or finished today																															
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# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



TKI

## Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0655		LV. DOCK 1540 20 knot wind	10/26/07
		WAIT ON WEATHER TO SEE WIND SPEED	Customer <u>HAI</u>
			P.O./Job Number: _____
			Location: _____
0740		PM DIVE TO DIVE FLASHER	Service _____
0750		MIKE DEAN DRESS IN TO DIVE FLASHER	
0805		M. DEAN L.S.	Crew <u>PICK</u> P. Joseph
0803		M. DEAN L.B.	<u>KIDWELL</u> Bartlett
		MOVE FLASHER OUT GET READY TO	<u>GALBREATH</u>
		WINCH OUT TO LOCATION	<u>DEAN</u>
			<u>POTHIER</u>
			<u>ELICKSON</u>
0839		M. DEAN L.S. CONTINUE IN RAZ	Equipment/Supplies _____
1104		M. DEAN L.B.	_____
		CHANGE OUT DIVERS	_____
1132		R. POTHIER L.S.	_____
		SLOW GOING lots of silt	Notes _____
		Deep pockets / High wind keeping	High wind today
		DIVE NO/O FOR QUICK EXIT IF NECESSARY	GUST TO 35 mph.
1359		POTHIER L.B.	
		CHANGE OUT DIVERS	Phone: _____
			Contact: _____
1424		TK L.S. CONT IN RAZ	Filled out by: _____
1401		TK LB	YES NO
			Quote Provided
			Quote Number: _____

PROCESS WATER TO LIGHT 73 BARGE



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 75 <span style="float: right;">Page 1 of 1</span>																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 29 Oct 2007 - Monday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 45 °F, Max 63 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Continued sediment removal at RA2 location sediment removal at this location near complete.  Floating plant moved in at end of day to secure spuds in shallower water to prevent movement of floating plant.  <b>General Comments:</b> Diver conducted sime over of area previously done to verify sompliance with contract for sediment removal.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
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# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



MONDAY  
Daily Log

W/O# 30872

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0659		LV. DOCK	10/29/07
0705		ON BOARD	Customer
0740		PM DIVE	P.O./Job Number:
0752		L.E. L.S. COPT IN RAZ w/ sed. REMOVAL	Location:
		CANIT FIND SUC. HOSE MUST BE MONDAY	Service
0800		HOT PUMP	Crew
1020		PUMP COLO L.B. L.F.	D.K.
1022		L.F. @ 10' FOR 12 MIN	KIDNEY
1044		L.E. R.S. AOK	FRICKSON
		CHANGE OUT DIVERS	POTMAR
1107		MD L.S.	GALBRAITH
1137		MD L.B. CANIT GET TO DEEP CORNER	DEAN
124	1155	MD L.S.	BARTETT
1240		MD LB	JOSEPH
1242		MD REACH 10'	Equipment/Supplies
1305		MD LV 10'	
1306		MD R.S.	
		CHANGE OUT DIVERS	Notes
		VISITOR DAY	
			Phone:
			Contact:
			Filled out by:
			YES NO
			Quote Provided
			Quote Number:



# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



MONDAY  
Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
1328		R.P. L.S. CONTINUE ON IN TAZ	10/29/07
1501		R.P. R.S. 8/10	Customer P.O./Job Number: _____
		CHANGE OUT DIVERS	Location: _____
1514		TK L.S.	Service _____
1602		TK L.B.	Crew _____
1603		TK @ 10'	_____
1613		TK LV 10'	_____
1614		TK R.S.	Equipment/Supplies _____
		CLEAN UP SEAM AND WINCH	_____
		TO SAFE GROUND	_____
			Notes _____
			_____
			_____
			_____
			_____
			Phone: _____
			Contact: _____
			Filled out by: _____
			YES NO
			Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 76 <span style="float: right;">Page 1 of 1</span>																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 30 Oct 2007 - Tuesday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 43 °F, Max 60 °F; No Precipitation; 7 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> Continued and finished removal action in RA2. Sediment in this location was much deeper than previous locations. Entire grid swam over to verify sediment removal from all areas. Areas cleared per contract.																															
<b>General Comments:</b> Floating plant moved closer to shore to apply spuds for securing floating plant.																															
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# Global Diving & Salvage, Inc.

3840 West Marginal Way SW

Port of Seattle, Terminal 103

Seattle, WA 98106



TUES  
Daily Log

W/O # \_\_\_\_\_

Divers • Constructors • Salvors • Environmental Technicians

From	To	Description	Date
0657		LVE DOCK	10/30/07
0700		COMING AROUND CORNER	Customer _____
0720		TALGATE MEETING	P.O./Job Number: _____
		PM DIVE	Location: _____
0807		L.E. L.S.	Service _____
		BASICALLY WE'RE COMPLETE PLAN	Crew _____
		IS TO SWEEP AREA AGAIN	PICK _____
1024		L.E. L.B.	KIDWELL _____
1025		L.E. R. 10'	GABRIEL _____
1035		L.E. LV. 10' R.S.	POTIER _____
		CHANGE OUT DIVE'S	DEAN _____
1103		M.D. L.S. - CONTINUE PICKING UP	ERICKSON _____
		MATERIAL IN RAZ DIVE #38	JOSEPH BARTlett
1328		MD L.B.	Equipment/Supplies _____
1351		R.P. L.S.	SURFACE SUPPLIED GEAR
1535		FLUSH OUT SYSTEM FOR 10 MIN	U/W VIDEO
		PICK UP 4" HOSE	CHAMBER W/ 5120
1536		R.P. L.B. NO/D	Notes _____
		CLEAN UP / MOVE BARGE TO SAFE AREA	Phone: _____
			Contact: _____
			Filled out by: _____
			YES NO
			Quote Provided
			Quote Number: _____



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 77 <span style="float: right;">Page 1 of 1</span>																													
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 31 Oct 2007 - Wednesday																													
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																													
<b>WEATHER</b> Weather Caused No Delay Temperature Min 43 °F, Max 62 °F; No Precipitation; 5 MPH Wind																															
<b>QC NARRATIVES</b>  <b>Activities in Progress:</b> All areas of RA2 complete. Processing remaining water and sediment through filtration system. Clean water flushes of all hoses being completed prior to hose disconnect.  All water from primary sediment settling boxes has been transferred to frac tanks for further dwell time to settle out solids. Water is then being gradually fed into wier tanks to continue settling process and final processing through remaining filtration system.																															
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today																															
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**CONTRACTORS QUALITY CONTROL REPORT (QCR)  
DAILY LOG OF CONSTRUCTION - CIVIL**

REPORT NUMBER  
78 Page 1 of 1

DATE  
01 Nov 2007 - Thursday

PROJECT  
Bradford Island Hazardous Waste Clean Up

CONTRACT NUMBER  
W9127N-07-C-0017 NA

CONTRACTOR  
Huang & Associates, Inc.

WEATHER  
Weather Caused No Delay  
Temperature Min 42 °F, Max 60 °F; No Precipitation; 5 MPH Wind

**QC NARRATIVES**

**Activities in Progress:**

Continued treatment of remaining water in frac tanks and wier tanks. Moving water frac tanks to wier tanks to allow settling before treatment through filtering system.  
Water transfer completed today. Disconnected remaining hoses and prepared floating plant for roll off removal on Saturday 11/03/07

**PREP/INITIAL DATES** (Preparatory and initial dates held and advance notice)

No preparatory or initial inspections were held today

**ACTIVITY START/FINISH**

No activities were started or finished today

**QC REQUIREMENTS**

No QC requirements were completed today

**QA/QC PUNCH LIST** (Describe QC Punch List items issued, Report QC and QA Punch List items corrected)

No QC Punch List items were issued today

No Punch List items were corrected today

**CONTRACTORS ON SITE** (Report first and/or last day contractors were on site)

No contractors had their first or last day on site today

**LABOR HOURS**

The following labor hours were Reported today:

Employer	Labor Classification	Number of Employees	Hours Worked
Global D and S	CARPENTER, PILEDRIVERMEN	2.0	20.0
Huang & Associates	LABORERS	2.0	20.0
Total hours worked to date: 2,670.0	Total	4.0	40.0

**EQUIPMENT HOURS**

The following equipment hours were Reported today:

Serial Number	Description	Standby Hours	Operating Hours
Buc	Crane Barge	0.0	10.0
001	173 Barge	0.0	10.0
002	110 Barge	0.0	10.0
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total operating hours to date: 1,210.0	Total	0.0	50.0

**ACCIDENT REPORTING** (Describe accidents)

No accidents reported today

**CONTRACTOR CERTIFICATION** On behalf of the contractor, I certify that this Report is complete and correct and all equipment and material used and work performed during this Reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

QC REPRESENTATIVE'S SIGNATURE

DATE

SUPERINTENDENT'S INITIALS

DATE



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		REPORT NUMBER 79		Page 1 of 1	
		DATE 02 Nov 2007 - Friday		CONTRACT NUMBER W9127N-07-C-0017 NA	
PROJECT Bradford Island Hazardous Waste Clean Up					
CONTRACTOR Huang & Associates, Inc.		WEATHER Non Work Day Temperature Min 0 °F, Max 0 °F; No Precipitation; No Wind			
<b>QC NARRATIVES</b> No QC Narratives were reported today					
<b>PREP/INITIAL DATES</b> (Preparatory and initial dates held and advance notice) No preparatory or initial inspections were held today					
<b>ACTIVITY START/FINISH</b> No activities were started or finished today					
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<b>EQUIPMENT HOURS</b> No equipment hours were Reported today Total operating hours to date: 1,210.0					
<b>ACCIDENT REPORTING</b> (Describe accidents) No accidents reported today					
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QC REPRESENTATIVE'S SIGNATURE		DATE	SUPERINTENDENT'S INITIALS		DATE



<b>CONTRACTORS QUALITY CONTROL REPORT (QCR)</b> <b>DAILY LOG OF CONSTRUCTION - CIVIL</b>		<b>REPORT NUMBER</b> 80	Page 1 of 2																				
<b>PROJECT</b> Bradford Island Hazardous Waste Clean Up		<b>DATE</b> 03 Nov 2007 - Saturday																					
<b>CONTRACTOR</b> Huang & Associates, Inc.		<b>CONTRACT NUMBER</b> W9127N-07-C-0017 NA																					
<b>WEATHER</b> Weather Caused No Delay Temperature Min 40 °F, Max 64 °F; No Precipitation; 5 MPH Wind																							
<b>QC NARRATIVES</b>																							
<b>Activities in Progress:</b> Moved floating plant into position for off load of roll off boxes. Held preparatory meeting prior to off load of boxes, discussed safety and health issues and reviewed crane procedures.  All boxes removed from floating plant by noon.																							
<b>General Comments:</b> Floating plant moved out of BRZ in preparation for demobilization down river. Floating plant temporarily tied off to dolphins upstream from Bonneville Dam.  All work complete for sediment removal action.																							
<b>Safety Inspection / Safety Meetings:</b> held prelift safety meeting for crane operation. Also conducted crane inspection prior to any picks being made. Axis crane provided crane services for off load of boxes.																							
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PROJECT Bradford Island Hazardous Waste Clean Up		DATE 03 Nov 2007 - Saturday	
CONTRACT NUMBER W9127N-07-C-0017 NA			
003	Flasher	0.0	10.0
004	Nellie Tug	0.0	10.0
Total operating hours to date: 1,260.0		Total	50.0
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QC REPRESENTATIVE'S SIGNATURE		DATE	SUPERINTENDENT'S INITIALS DATE







**Bradford Island Contaminated Sediment Removal  
Bonneville Dam  
Cascade Locks, Oregon**

**Contract No: W9127N-07-C-0017**

**Project Safety and Health Phase Out Report  
2007**

Prepared for:  
U. S. Army Corps of Engineers – Portland District  
Portland Resident Office  
1060 NW Corporate Drive  
Troutdale, OR 97060-9540

Submitted by:  
Huang & Associates, Inc.  
9880 Waterman Road, Unit 130  
Elk Grove, CA 95624

Project No. HA02



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<u>SECTION</u>	<u>PAGE NO.</u>
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2.0 Off site Frac Tank and Weir Tank Decontamination .....	2
3.0 Corrective Actions .....	2
4.0 Corrective Actions .....	2



## **1.0 Project Safety Summary**

### **1.1 Mobilization**

We mobilized to the Fred Devine diving and Salvage yard on Swan Island located in Portland, Oregon. All work for set up of floating plant and dive barge was conducted at this location. No accidents or incidents occurred during set up and installation of sediment removal equipment.

Following floating plant set up and functions testing, the entire floating plant was then moved to Bonneville Lock and Dam. Movement of the floating plant from Swan Island took place on September 30, 2007 and was completed on October 2, 2007. Prior to actual movement through the locks all onsite personnel attended necessary site safety briefings for work at Bonneville Dam.

Once the floating plant was in position near the removal locations RA1-3, the floating plant was secured and set up to proceed with sediment removal activities starting at RA3.

### **1.2 Dive Activities**

Dive safety meetings were held prior to the start of work during all dive operations. All personnel on the dive team attended and signed off on work to be done during that shift. Dive hazard analysis was discussed prior to each dive. In addition, depth of dive and length of bottom time was constantly monitored.

No accidents or incidents occurred during dive activities.

### **1.3 Floating Plant Inspections and Sediment Dewatering Process**

During initial phases of sediment dewatering it was necessary for adjustments to be made to fill rates for sediment removal tanks, frac tanks and wier tanks. Fill rate adjustments needed to be made to maintain proper loading of the floating plant. Unbalanced loading of frac tanks could cause a possible hazard of overloading of the barge due to uneven fill rates.



The issue of unbalanced fill rates was mitigated by reducing number of sediment tanks being filled at one time and filling the sediment tanks working from the center of the barge to the outside of the barge. Balancing the barge with the treatment system required the use of an additional pump located between the frac tanks and the weir tanks to move fluid mechanically from the back of the barge to the center of the barge. Original setup of the frac and weir tanks relied upon gravity to feed the tanks and balance the load.

Each morning prior to startup of equipment and pumps all containments on the floating plant were inspected for water accumulation and sheen detection. When sheen was observed in the containment areas appropriate action was taken to remove the sheen and also the water to prevent inadvertent discharge into the Columbia River. Water removed from the containments was treated through the sediment dewatering system for removal of all contaminants.

No spills or accidental releases occurred during operation of the sediment dewatering system.

#### 1.4 Sediment Dewatering System Disconnect

This phase of work took place following completion of sediment removal in RA1-3. RA2 was the last action area completed during sediment removal activities. Disconnect of the system was completed following a complete clean water flush of the dredge pump. This was accomplished by running fresh (clean) water through the pump for twenty minutes to remove sediment particles from the pump and hoses. Once complete all lines were closed off to prevent back flow into the system. Shutting off all valves also allowed for removal of hoses from the sediment dewatering tanks without discharge of contaminated water.

The same procedure was also followed for the frac tank and weir tank hose disconnect. Again all valves on the frac tanks and weir tanks were shutoff prior to disconnect to prevent inadvertent releases. This means of flush and disconnect was performed throughout the system until all hoses and parts to the treatment system had been flushed and disconnected.



Final flushing and cleaning was completed on 10/31/07 with no accidents or incidents.

#### **1.5 Crane Off-loading and Transportation and Disposal of Contaminated Sediment**

Crane offloading and transportation and disposal of contaminated sediment took place on 11/3/07. Prior to start of off-loading of any boxes a pre-work safety meeting was held to review specific activity hazard analysis. Also an inspection of the crane was conducted to insure proper load ratings and safe function of the crane. USACE Portland District Safety Manager, Dave Stanton, was onsite during off-loading activities.

All sediment dewatering bins were loaded onto trucks and transported to Wasco County Landfill for disposal. No accidents or incidents occurred during this phase of work.

#### **2.0 Offsite Frac Tank and Weir Tank Decontamination**

Offsite decontamination of the frac tanks and weir tanks took place at Tidewater Barge Lines (TBL) Vancouver, WA facility. Approval was obtained from TBL to proceed with this portion of work at their facility. Actual decontamination of the tanks was conducted by West Coast Marine Cleaning. West Coast Marine Cleaning's Task Specific Safety Plan and Spill Response Plan are attached to this safety report.

Decontamination of the tanks was completed on 11/7/07. No accidents or incidents occurred during decontamination procedures.

#### **3.0 Corrective Actions**

Any issues that arose during progress of this contract were addressed as soon as an issue was discovered.



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# T I D E W A T E R

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Celebrating 75 years of  Service, Pride and Integrity

To: Noah Rivera  
H.A.I.

## Facility Use Agreement

Tidewater Terminal Company grants permission to HAI for the use of our dock, crane, and yard located at 6305 NW Old Lower River Road, Vancouver WA for the purpose of discharging six (6) liquid tank trailers from a barge, towing them to a designated site in the yard, cleaning the equipment, and towing away. The barge unloading will be performed using Tidewater's crane and operator but under the supervision of Global Diving & Salvage. Global Diving & Salvage will also provide manpower for rigging. The equipment being handled belongs to Rain For Rent and cleaning of the equipment will be performed by West Coast Marine Cleaning.

Authorized by:

  
Greg Zanavich

TIDEWATER TERMINAL COMPANY

P.O. Box 1210 • Vancouver, WA 98666-1210 • (360) 693-1491 • (503) 281-0081 • (800) 562-1607





**West Coast  
Marine Cleaning**

I N C O R P O R A T E D

**Marine & Industrial Cleaning**

Physical: 3501 Thompson Ave. • Vancouver, WA 98660

Mailing: P.O. Box 61944 • Vancouver, WA 98666-1944

(503) 285-2485 • (360) 696-3362 • Toll Free 877-WCMCINC • Fax (360) 696-3385

## **Task Specific Safety Plan**

**For**

**Cleaning of**

**Storage Tanks & Sand Filters  
containing Non-Hazardous mud**

**Customer  
Rain for Rent**

**Job Site  
Tidewater Barge Lines  
6305 NW Old Lower River Road  
Vancouver, WA. 98660**

**Original November 01, 2007**



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### Task Specific Safety Plan

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4.0	Site Description . . . . .	Page #4
5.0	Calculations and Specifications. . . . .	Page #4
6.0	Cleaning Procedures . . . . .	Page #4
6.1	Off Site Preparation . . . . .	Page #4
6.2	On Site- Set Up . . . . .	Page #4
6.3	Tank Cleaning . . . . .	Page #5
6.4	On Site Storage . . . . .	Page #5
6.5	Transportation . . . . .	Page #5
6.6	Demobilization . . . . .	Page #5
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#### Appendix A: Analytical Report

1. BQJ0529-01 (PCB 3),
2. BQJ0529-02 (PCB 4).

#### Appendix B: Transportation Plan Spill Plan



## **1.0 INTRODUCTION**

The objective of this task specific safety plan is to provide health and safety guidance to West Coast Marine Cleaning Inc. (WCMCI) personnel and provide guidelines during normal and abnormal conditions during the cleaning process. The plan assigns responsibilities, discusses potential chemical and physical hazards, establishes protection standards and safe work practices, provided contingencies for emergency situations and provides regulatory compliance including the required documentation.

This plan may not identify all possible environmental hazards, eliminate all risks or provide any guarantees regarding site safety for workers.

The provisions of this plan are to be followed by all WCMCI employees and *if applicable* sub-contractors engaged in specific assigned duties. The plan has been developed under EPA (U.S. Environmental Protection Agency) guidelines and complies with all applicable regulations including OSHA (Occupational Safety and Health Administration) 29 CFR 1910.120 and 1926 standards.

## **2.0 APPLICABILITY**

This task specific safety plan is applicable to all tank cleaning activities to remove non-hazardous mud residue from inside temporary storage tanks including wastes listed in Subsection 2.1 and involving one or more of the activities in Subsection 2.2. If material or conditions exist that are not outlined or listed in Subsection 2.1, then WCMCI's Health and Safety Program Manager should be contacted in order to review and if appropriate, revise this site safety plan to include that substance or revised procedure.

### **2.1 Substances**

1. Mud Emulsion.

### **2.2 Description of Field Activities Covered by the Work Plan**

If a planned or unscheduled activity is not included in the following list, WCMCI's Health and Safety Program Manager must be informed and a modified plan prepared to cover the additional activity. The following is a list of field activities covered by this plan.

1. Fresh water cleaning of tank interior,
2. Fresh water flushing of sand filters,
3. Transportation of waste to an off site receiving facility.

## **3.0 PERSONNEL AND THEIR RESPONSIBILITIES**

Personnel responsible for work site safety on this project is the Senior on site company employee herein designated the Site Safety Officer (SSO) and the Project Manager (PM) Bill Landry with West Coast Marine Cleaning, Inc. Descriptions of individual's responsibilities are presented below.



### 3.1 Site Safety Officer (SSO)

The site safety officer is responsible for directing, implementing, and reporting all site specific health and safety related activities, as specified in this work plan. The designated SSO will generally be the senior West Coast Marine Cleaning representative assigned to this work area or project, unless otherwise identified. The SSO has the authority to suspend any or all work or to modify work practices for safety reasons and to dismiss from the site individuals whose on site conduct endangers the health and safety of themselves or others. The specific duties of the SSO are listed below;

1. Implement this site safety plan in the field and monitor compliance with its guidelines.
2. Assure that all applicable federal, state, and local health and safety regulations are followed.
3. Assure that proper health and safety equipment and supplies are available and maintained at the site.
4. Set up any necessary site safe work zones, markers, signs, and/or security systems.
5. Perform or supervise necessary health and safety air quality monitoring.
6. Communicate health and safety guidelines to all field personnel, sub-contractors and site visitors.
7. Consult with the PM regarding new or unanticipated site conditions, including emergency response activities. If field monitoring indicates concentrations of potentially hazardous substances at or above the established exposure limits, the PM must be notified and corrective action taken.
8. Document all site accidents, illness or safety infractions, report to the PM.
9. Direct decontamination operations of equipment and personnel.

### 3.2 Project Manager (PM)

WCMCI assigns a Project Manager to each new job. The PM is responsible for compliance with this Health, Safety and/or Work Plan. The PM with assistance from the SSO will conduct a documented pre-work tailgate safety meeting and will brief the Site Safety Officer and other field personnel regarding site safety concerns.

### 3.3 Required Training

Only individuals who have complied with the training listed below are authorized to perform work at this site. The Project Manager and Site Safety Officer are responsible for assuring that all personnel assigned to this project have met these requirements.

Training records for all WCMCI personnel are kept on file at the WCMCI's Vancouver, Washington office.

1. At least one on site field supervisor shall be certified in confined space entry atmospheric testing and will test on spaces for "safe for man" prior to employee entry,
2. Employees assisted hole watch or confined space entry duty will have completed confined space entry training and if respiratory protection is required each employee shall be approved by a licensed physician to wear respiratory protection.
3. Employees shall be training in the proper selection, use, and limitations of applicable Personal Protective Equipment as outlined in WAC 296-800-16025.
4. At least one on site field staff member shall be certified in basic first-aid and CPR (cardio pulmonary resuscitation) procedures.

page 3



### 3.4 Health & Safety Responsibilities of Sub-Contractors

1. N/A

## 4.0 SITE DESCRIPTION

The physical site is located at Tidewater Barge Lines facility 6305 NW Old Lower River Road Vancouver, WA. 98660. The actual production location is near the container dock. Specifically inside six Rain for Rent 18,000 to 21,000 gallon temporary storage tanks. Site security is maintained by client personnel.

## 5.0 CALCULATIONS & SPECIFICATIONS

### 5.1 Process Calculations

Tanks contain only non-hazardous liquids, sludge and solids,

Tank retain was visually confirmed as 3% or less,

Wash pumps typically generate 6 gpm,

Estimated total volume solids to be transported to WASCO;

1,000 gallons

Estimated total volume liquids transferred on site;

1,000 gallons

## 6.0 CLEANING PROCEDURES

### 6.1 Off site preparation

Prepare, test and if applicable fuel all equipment including vacuum trucks, air compressor and wash pumps which will be used in cleaning operations.

### 6.2 On site set up

- ☐ SSO or PM accomplish site hazard assessment and tailgate safety meeting,
- ☐ Position the equipment at designated locations,

Set up equipment and precautionary boundaries

- ☐ a. Establish safe working boundaries, utilize yellow tape if applicable,
- ☐ b. Set up working equipment utilize good housekeeping,
- ☐ c. Test confined space(s) for entry, refer to H&S Manual,
- ☐ d. Secure fall areas with Caution or Danger tape as applicable,

The SSO or other Contractor representative may/will inspect the work area and may determine additional shielding or safety devices are required. These may include portable shielding or exhaust.

### 6.3 Tank Cleaning

- ☐ Don all required Personal Protective Equipment as outlined in Section 8.1.
- ☐ Inspect Standby Equipment as outlined in Section 8.2.
- ☐ Set positive space ventilation and test confined space as Safe for Man Entry,
- ☐ Identify designated Hole Watch and assign no other duties,
- ☐ Remove sludge via hand tools and place solids into sludge only vacuum truck,
- ☐ 2500 psi clean tank interior to remove solids sufficient for end of service clean,
- ☐ When technician completes tank cleaning operation PM shall inspect work for completion,

The PM or Contractor representative may/will inspect the tank for completion prior to demobilization of equipment.

page 4



#### **6.4 On Site Storage**

- ☐ None

#### **6.5 Transportation of Liquids and Sludge Waste**

- ☐ See Transportation Plan enclosed,
- ☐ Se Spill Plan enclosed.

#### **6.6 Demobilization**

- ☐ Place a small discharge containers i.e. drip pan or plastic bucket under each connection and disconnect the transfer hose assembly from each connect.
- ☐ Conduct inspection of facility removing all West Coast Marine Cleaning, Inc. generated trash and debris, place in provided drop box.

### **7.0 HAZARD EVALUATION**

To recognize, evaluate and control the exposure to the chemical, physical, and biological properties of this materials, hazards should be understood by all field staff. All employees shall reference the analytical located in Appendix A of this Work Plan.

#### **7.1 Personal Protective Equipment, required use**

Personal protective equipment is necessary to prevent contact with potentially hazardous waste while working on site. Based on generators knowledge and to fully protect the employees, all personnel with potential exposure shall wear;

Polyethylene or SARANEX Tyvek or raingear coveralls  
Neoprene or rubber gloves,  
Rubber boots,  
Eye protection,  
Hard hat with splash shield,  
Steel toed boot or covers, when water blasting.

#### **7.2 Stand by equipment**

The following safety equipment shall be at the immediate work area and tested for operation/effectiveness prior to start of this project.

Eye wash, capable of fifteen minute continuous flush,  
Cellular telephone, emergency contact number may be programmed for dialing,  
Man retrieval device,  
Fire Extinguisher, 20 lb.



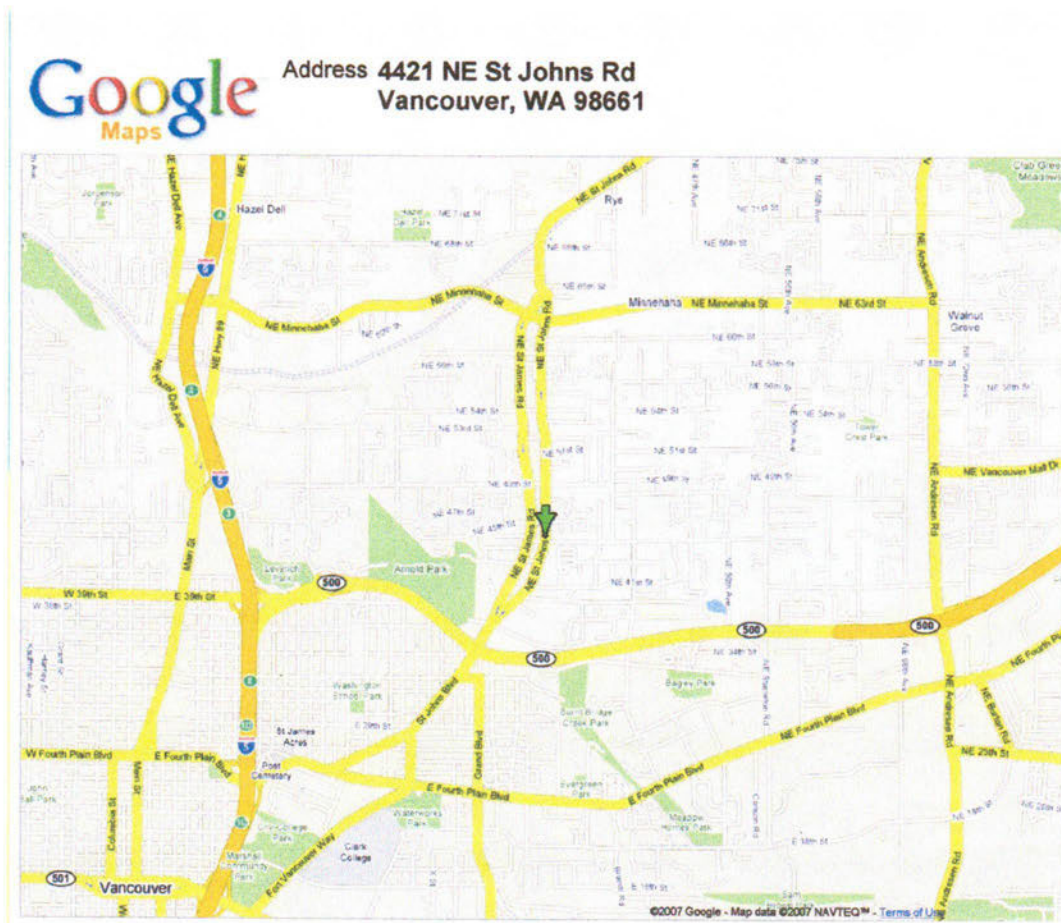
## 8.0 EMERGENCY INFORMATION

Site personnel must be able to respond effectively to emergencies that may develop. WCMCI personnel will not assume the duties of any fire fighting.

- |    |                           |          |
|----|---------------------------|----------|
| 1. | Emergency                 | Dial 911 |
| 2. | Vancouver Fire Department | Dial 911 |
| 3. | Washington State Police   | Dial 911 |

**Emergency Care**  
NW Occupational Medical Ctr  
4421 St. Johns Road  
Vancouver, WA. 98661  
Tel: 360-695-6638

**Ambulance Service**  
911







**West Coast  
Marine Cleaning**  
I N C O R P O R A T E D

**Marine & Industrial Cleaning**  
Physical: 3501 Thompson Ave. • Vancouver, WA 98660  
Mailing: P.O. Box 61944 • Vancouver, WA 98666-1944

(503) 285-2485 • (360) 696-3362 • Toll Free 877-WCMCINC • Fax (360) 696-3385

## **Spill Response Plan Transportation Route Plan**

**For**

**Cleaning of**

**Storage Tanks & Sand Filters  
containing Non-Hazardous mud**

**Customer  
Rain for Rent**

**Job Site  
Tidewater Barge Lines  
6305 NW Old Lower River Road  
Vancouver, WA. 98660**

**Original November 01, 2007**



## **1.0 INTRODUCTION**

The objective of this plan and procedures are to provide approved route descriptions, identification of environmentally sensitive high impact areas, identify proximity to natural hazard areas, provide spill notification information, identify available spill resources and outline West Coast Marine Cleaning, Inc. initial and clean up activities. This plan may not identify all possible hazards, eliminate all risks or provide any guarantees regarding safety for workers.

The provisions of this plan are to be followed by all WCMCI employees and *if applicable* sub-contractors engaged in specific assigned duties. The plan has been developed as outlined in contractual agreement between the City of Albany and West Coast Marine Cleaning, Inc.

## **2.0 APPLICABILITY**

This spill response plan is applicable to all transportation of non hazardous solids removed from the waste water treatment plants wet well activities listed in Subsection 2.1. If material or conditions exist that are not outlined or listed in Subsection 2.1, then WCMCI's Health and Safety Program Manager should be contacted in order to review and if appropriate, revise this plan to include that substance or revised procedure.

### **2.1 Description of Transportation Activities Covered by the Work Plan**

If a planned or unscheduled activity is not included in this section, WCMCI's Health and Safety Program Manager must be informed and a modified plan prepared to cover the additional activity. The following is a list of transportation activities covered by this plan.

1. Transport non hazardous / non RCRA liquids and solids to WASCO County landfill

## **3.0 PERSONNEL AND THEIR RESPONSIBILITIES**

Personnel responsible for transportation activities on this project is Robert Baker with West Coast Marine Cleaning, Inc. herein designated the Site Safety Officer (SSO), the Project Manager (PM) Kevin Stumper with West Coast Marine Cleaning, Inc. and the Commercial Truck Driver (CDL). Descriptions of individual's responsibilities are presented below.

### **3.1 Site Safety Officer (SSO)**

The site safety officer is responsible for directing, implementing, and reporting all site transportation activities, as specified in this work plan. The designated SSO will generally be the senior West Coast Marine Cleaning, Inc. Representative assigned to the work area or project, unless otherwise identified. The SSO has the authority to suspend any or all transportation activities or to modify work for safety reasons and to dismiss from the site individuals whose conduct endangers the health and safety to themselves, other employees, the general public or adversely impacts the environment. The specific duties of the SSO are listed below;

1. Implement this spill response plan and monitor compliance.
2. Assure that all applicable federal, state, and local transportation regulations are followed.
3. Assure that spill equipment and supplies are available and maintained on site.
4. Report spill to appropriate individuals, agencies and interested parties.
5. Consult with the PM regarding emergency response activities.
6. Document all spills and submit spill reports as required.

Page 2-1



### **3.2 Project Manager (PM)**

The project manager will assist the SSO and in will assume the duties of the SSO in his absence. The specific duties of the MP are listed below;

1. Implement this spill response plan and monitor compliance.
2. Insure all Department of Transportation regulations are followed.
3. Check status and condition of on site spill equipment and supplies.
4. Consult with the SSO regarding emergency response activities.
5. Document all spills and submit spill reports as required.

### **3.3 Commercial Truck Driver (CDL)**

In the event of a spill the commercial truck driver will assume the duties of first responder and will immediately notify the SSO and the PM. Specific duties of the CDL are listed below;

1. Immediately notify the SSO and PM of the incident.
2. Warn the general public and secure the site.
3. If the scene is safe, immediately take controlling actions using on board spill equipment to protect the general public and lessen environmental impact.
4. Stay at the incident site until properly relieved by SSO, PM or emergency personnel.
5. If directed assist with clean up activities.

### **3.3 Required Training**

Only individuals who have complied with the training listed below are authorized to perform work at this site. It is the Project Manager and Site Safety Officer's responsibility to insure that all personnel assigned to this project meet these requirements. Training records for all WCMCI personnel are kept on file at the WCMCI's Vancouver, Washington office.

1. All WCMCI involved in this project will be properly licensed by the Department of Transportation and authorized to operate roll off equipment.
2. At less one site member shall be a qualified person in charge (PIC).
3. At less one member shall be certified in basic first-aid and CPR (cardio pulmonary resuscitation) procedures.

## **4.0 ROUTE DESCRIPTION**

It is in the best interest of the customer and West Coast Marine Cleaning, Inc. to utilize the most direct route and the utilization of the truck route to the landfill, thus minimizing exposure. CDL operators are directed to proceed directly to the landfill without stopping for lay over or deviating from this route.

No **Reference Points** are identified for this project, all transportation tasks are defined as an "as needed bases" and each task is estimated at less than one day per occurrence, CDL operators are instructed to accomplish DOT required safety checks before leaving dispatch yard, and insure fuel levels are adequate to accomplish daily project without the need to refuel while transporting WWTP solids.



The designed receiving facility is WASCO County Landfill 2550 Steele Road The Dalles, OR. 97058. The landfill is located 93.01 miles from the point of generation. Approved route map is included in appendix B.

1. Starting out going East on NW Lower River towards I-5	2.90 miles
2. Merge on I-5 towards Portland	0.20 miles
3. Merge onto Hwy 14 via exit 1A towards Camas, go	5.80 miles
4. Merge onto I-205 towards Portland / Salem	4.85 miles
5. Merge onto Hwy 84 via exit 22 towards The Dalles	75.10 miles
6. Take exit 84 towards city center	0.23 miles
7. Turn right onto Dry Hollow Road	1.10 miles
8. Turn slight right onto Steele Road	0.80 miles

## **5.0 IDENTIFICATION OF SENSITIVE AREAS**

It is in the best interest of the customer and West Coast Marine Cleaning, Inc. to utilize the most direct truck route available to minimize exposure however this route as identified in section 4.0 has areas of heightened concerns. These areas are within the normal exposure parameters of the truck route but extra care shall be exercised when operating in these areas.

## **6.0 PROXIMITY TO NATURAL HAZARD AREAS**

Some naturally occurring hazards may develop which effect transportation of this waste and will require the CDL operator to adjust driving habits to compensate for these changes. These naturally occurring hazards may include;

1. Standing water on bridges and roads ways along Hwy 84.
2. Animals along roads ways, particularly near Game Management Areas.
3. Pedestrians and vehicles which may stop unexpectedly to view wild life.

## **7.0 SPILL NOTIFICATION SYSTEM**

Timely spill notification is of the utmost of importance, the notification allows responsible individuals to initiate spill response resources, minimize public and environmental impact, notify concerned regulatory agencies and notify the customer.

All spills regardless of size will require spill notification.

All CDL operators carry a Nextel telephone with walkie-talkie and telephone capabilities, these telephone have unlimited usage and are routinely used for continuous communicates with twenty six fleet units assigned to West Coast Marine Cleaning, Inc. Key personnel and support staff will be available around the clock during this project.

### **7.1 Gather Information**

In the event of spill onto the ground or into a waterway collect following information:

1. Address or nearest cross streets relative to the spill,
2. Body of water effected, if applicable,
3. Name of reporter,



4. Current weather condition,
5. Exact time and date of the spill,
6. Type of waste released,
7. Quantity of waste released,
8. Source or cause of the release,
9. Containment actions taken.

## 7.2 Emergency Notification

Individuals are assigned specific notification and reporting tasks. Each CDL Operator, the SSO, & PM will carry cellular telephones for immediate notification. responsibilities for notification and time limits are out lined as follows;

1. CDL Operator, as soon as possible but not more than 1/2 hours contact;

a) Robert Baker                      Office 360-696-3362  
    Cell (b) (6)  
    Home (b) (6)

b) Kevin Stumper                      Office 360-696-3362  
    Cell (b) (6)

c) Allan Ramsey                      Office 360-696-3362  
    Cell (b) (6)  
    Home (b) (6)

d) Keith Thurston                      Office 360-696-3362  
    Cell (b) (6)

2. SSO, as soon as possible but not more than 1 hour contact;

a) Department of Emergency Management  
    Office 800-258-5990

b) Department of Ecology      360-407-6300

c) Department of Environmental Quality  
    800-452-0311

3. PM, if so designed by SSO assume SSO notification responsibilities;



## 8.0 EMERGENCY RESPONSE, CONTRACTORS RESPONSIBILITY

Oregon State Code OAR 340-47-015 prohibits pollution in any manner whatsoever; regardless of whether it be the result of intentional or negligent conduct, accident or other causes. Any discharge of hazardous substances must be immediately reported, and steps taken to clean up the spill.

If the spiller is unknown, fails to respond, or the response is considered to be inadequate, the state or federal agency having jurisdiction may exercise the authority to take over the response and recover expenses from the spiller (OAR 340-108-070)

Under OAR 340-108-070, any person who fails to clean up a spill immediately, when under obligation to do so, is responsible for the expenses incurred by the Department of Environmental Quality (DEQ) in carrying out a clean up project. Any person who does not make good faith effort to carry out a clean up is liable to the DEQ for damages not to exceed three times the amount of all expenses incurred by the DEQ.

Oregon State law and regulations concerning spills are enforced by the Oregon State Department of Environmental Quality. The DEQ Willamette Valley Region Office shall be notified within one hour of any spills or other threats to the environment that may occur. Failure to provide notification within one hour may be considered cause for taking enforcement action against the City of Albany. The contractor shall be responsible for any action taken against the City that they cause.

Spills that occur after normal working hours shall be reported to the Emergency Management Division (EMD) within one hour. The telephone number of EMD is 1-800-452-0311.

West Coast Marine Cleaning, Inc. will assume the responsibilities of the primary spill clean up service provider. Resources will be available on site for initial controlling actions to protect the general public and lessen environmental impact. These resources will be available at the job site and response times are estimated at less than one half hour. Additional man power, equipment and resources are available from our Vancouver dispatch yards response times are estimated at two hours during normal business hours and four hours after hours.

Additional spill clean up services providers are identified for this project and if required will assist in clean up activities. These providers are considered secondary responders and have agreed to respond with available resources. Identified service providers are Terra Hydr 1-503-625-4000 and Cowlitz Clean Sweep 1-360-423-6316.

### 8.1 Response Times

West Coast Marine Cleaning, Inc.	Job site personnel . . . . .	1/2 hour
West Coast Marine Cleaning, Inc.	Vancouver yard . . . . .	2 hour
	After hours . . . . .	4 hour
Terra Hydr	Portland, OR . . . . .	2 hour
	After hours . . . . .	4 hour
Cowlitz Clean Sweep	Longview, WA. . . . .	3 hour
	After hours . . . . .	5 hour



## 9.0 EMERGENCY NOTIFICATION

Emergency: Dial 911

**West Coast Marine Cleaning, Inc.**

Robert Baker, General Manager  
3501 Thompson Ave.  
Vancouver, WA. 98660  
Office: 503-285-2484  
Cell: (b) (6)

**West Coast Marine Cleaning, Inc.**

Lee Uhlar, Dispatch  
3501 Thompson Ave.  
Vancouver, WA. 98660  
Office: 503-285-2484  
Cell: (b) (6)

**First Strike Environmental**

204 Quarry Road  
Roseburg, OR. 97470  
Response 541-673-9892

**West Coast Marine Cleaning, Inc.**

Allan Ramsey, Safety Officer  
3501 Thompson Ave.  
Vancouver, WA. 98660  
Office: 503-285-2485  
Cell: (b) (6)

**West Coast Marine Cleaning, Inc.**

Keith Thurston, Project Manager  
3501 Thompson Ave.  
Vancouver, WA. 98660  
Office: 503-285-2485  
Cell: (b) (6)

**Cowlitz Clean Sweep**

55 International Way  
Longview, WA. 98632  
Response 360-423-6316



## COMPLIANCE AND AGREEMENT SIGN IN SHEET







Contract Number W9127N-07-C-0017

Bradford Island Contaminated Sediment Removal

Contaminated Sediment Disposal Summary

Date	Tag No.	Tons	Comments
Hillsboro Landfill			
10/09/07	35596	3.05	Sand Filter Media
Wasco County Landfill			
11/03/07	93416	5.25	Sediment
11/03/07	93417	5.50	Sediment
11/03/07	93418	6.93	Sediment
11/03/07	93419	1.42	Sediment
11/03/07	93420	6.65	Sediment
11/08/07	93718	12.76	Sediment
11/08/07	93736	7.44	Sediment
11/09/07	93795	7.39	Sediment
11/09/07	93796	6.68	Sediment
Siemens Water Technologies			
12/17/07	2939057	4.45	Granular Activated Carbon
Total Tons		67.52	



Shipper's NO.

(Carrier)

PSC

SCAC

Carrier's No.

035996

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations.

at CONTAINMENT, date 9 OCT 07 from BONNEVILLE DAM  
the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: (Mail or street address of consignee for purposes of notification only.)

FROM:

Consignee

Shipper RAIN FOR RENT

Street

Street

Destination HILLSBORO LANDFILL Zip

Origin BONNEVILLE DAM Zip

Route: I-84 to I-205 to I-5 to EXIT 39

Delivering Carrier

PSC

Trailer Initial/Number

U.S. DOT Hazmat Reg. Number

HM

Description of articles, special marks, and exceptions

Hazard Class

ID Number

Packing Group

Weight (subject to correction)

Class or rate

Labels required (see exceptions)

Check column

1

3 CU YARD NON RCRA, NON DOT,  
SOLID (SAND, GRAVEL)

N/A

N/A

N/A

6000

N/A

N/A

ACTUAL  
6,100 #

Remit C.O.D. to:

Address:

City:

State:

Zip:

COD

AMT:

\$

Charges Advanced

\$

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

C. O. D. FEE:

Prepaid ☐

Collect ☐ \$

FREIGHT CHARGES

☐ Prepaid ☐ Collect

NOTE: Liability limitations for loss or damage to or loss of property may be applicable. See 49 U.S.C. 14106(a)(1) and (2).  
To be in effect, the shipper must sign and attach this statement to the bill of lading and the carrier must sign and attach this statement to the bill of lading.

PLACARDS REQUIRED

NO

PLACARDS SUPPLIED

☐ YES ☐ NO - FURNISHED BY CARRIER  
DRIVER'S SIGNATURE

SPECIAL INSTRUCTIONS:

SHIPPER: Steve Wint

PER:

DATE:

CARRIER:

PER:

DATE:

EMERGENCY RESPONSE

TELEPHONE NUMBER:

Permitting post office not out of shipper

Marked at all times the Interstate Motor Vehicle Transportation Safety Program is in effect.



Nov. 16. 2007 9:44AM

No. 7399 P. 2



# WASCO COUNTY LANDFILL, INC.

2550 STEELE ROAD  
THE DALLES, OR 97058

TEL: 541-296-4082

DATE: 11/3/07  
TICKET NUMBER: 93416

07-22586

ACCOUNT #: 226

CUSTOMER: JAMMIE'S ENVIRONMENTAL, INC.  
P.O. BOX 1120  
LONGVIEW, WA 98632

## SCALE READINGS

Gross:	65,920 lbs	32.96 Tons
Tare:	55,420 lbs	27.71 Tons
Net Wt:	10,500 lbs	5.25 Tons

WASTE SOURCE: WASHINGTON ST  
TRUCK: 0  
COMMENT:

Waste Type	Material Description	Unit Price	Fees	Extended Price
PCS-O	PETR CONT SOIL - OUT CTY	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER

DRIVER SIGNATURE:

-----  
Duplicate Copy For Your Records - Tear On the Dotted Line



# WASCO COUNTY LANDFILL, INC.

2550 STEELE ROAD  
THE DALLES, OR 97058

TEL: 541-296-4082

DATE: 11/3/07  
TICKET NUMBER: 93416

TIME IN: 1:40 PM  
TIME OUT: 12:00 AM

ACCOUNT #: 226

CUSTOMER: JAMMIE'S ENVIRONMENTAL, INC.  
P.O. BOX 1120  
LONGVIEW, WA 98632

## SCALE READINGS

Gross:	65,920 lbs	32.96 Tons
Tare:	55,420 lbs	27.71 Tons
Net Wt:	10,500 lbs	5.25 Tons

WASTE SOURCE: WASHINGTON ST  
TRUCK: 0  
COMMENT:

Waste Type	Material Description	Unit Price	Fees	Extended Price
PCS-O	PETR CONT SOIL - OUT CTY	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER

DRIVER SIGNATURE:




**WASCO COUNTY LANDFILL, INC.**

 2550 STEELE ROAD  
 THE DALLES, OR 97058

TEL: 541-296-4082

 DATE: 11/3/07  
 TICKET NUMBER: 93418

ACCOUNT #: 491

 CUSTOMER: WEST COAST MARINE CLEANING  
 P.O. BOX 61944  
 VANCOUVER, WA 98666

 WASTE SOURCE: MULTNOMAH CO  
 TRUCK: 59  
 COMMENT: 133

## SCALE READINGS

Gross:	64,500 lbs	32.25 Tons
Tare:	50,840 lbs	25.42 Tons
Net Wt:	13,660 lbs	6.83 Tons

Waste Type	Material Description	Unit Price	Fees	Extended Price
SOIL	OTHER SOILS	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER \_\_\_\_\_

DRIVER SIGNATURE: \_\_\_\_\_


**WASCO COUNTY LANDFILL, INC.**

 2550 STEELE ROAD  
 THE DALLES, OR 97058

TEL: 541-296-4082

 DATE: 11/3/07  
 TICKET NUMBER: 93417

ACCOUNT #: 491

 CUSTOMER: WEST COAST MARINE CLEANING  
 P.O. BOX 61944  
 VANCOUVER, WA 98666

 WASTE SOURCE: MULTNOMAH CO  
 TRUCK: 59  
 COMMENT: 123

## SCALE READINGS

Gross:	62,580 lbs	31.29 Tons
Tare:	51,580 lbs	25.79 Tons
Net Wt:	11,000 lbs	5.50 Tons

Waste Type	Material Description	Unit Price	Fees	Extended Price
SOIL	OTHER SOILS	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER \_\_\_\_\_

DRIVER SIGNATURE: \_\_\_\_\_





## WASCO COUNTY LANDFILL, INC.

2550 STEELE ROAD  
THE DALLES, OR 97058

TEL: 541-296-4082

DATE: 11/3/07  
TICKET NUMBER: 93419TIME IN: 2:21 PM  
TIME OUT: 12:00 AMACCOUNT #: 491  
CUSTOMER: WEST COAST MARINE CLEANING  
P.O. BOX 61944  
VANCOUVER, WA 98666

## SCALE READINGS

Gross:	56,480 lbs	28.24 Tons
Tare:	53,640 lbs	26.92 Tons
Net Wt:	2,840 lbs	1.42 Tons

WASTE SOURCE: MULTNOMAH CO  
TRUCK: 59  
COMMENT: 126

Waste Type	Material Description	Unit Price	Fees	Extended Price
SOIL	OTHER SOILS	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER \_\_\_\_\_

DRIVER SIGNATURE: \_\_\_\_\_



## WASCO COUNTY LANDFILL, INC.

2550 STEELE ROAD  
THE DALLES, OR 97058

TEL: 541-296-4082

DATE: 11/3/07  
TICKET NUMBER: 93420TIME IN: 2:22 PM  
TIME OUT: 12:00 AMACCOUNT #: 491  
CUSTOMER: WEST COAST MARINE CLEANING  
P.O. BOX 61944  
VANCOUVER, WA 98666

## SCALE READINGS

Gross:	63,680 lbs	31.84 Tons
Tare:	50,380 lbs	25.19 Tons
Net Wt:	13,300 lbs	6.65 Tons

WASTE SOURCE: MULTNOMAH CO  
TRUCK: 59  
COMMENT: 136

Waste Type	Material Description	Unit Price	Fees	Extended Price
SOIL	OTHER SOILS	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER \_\_\_\_\_

DRIVER SIGNATURE: \_\_\_\_\_



**WASCO COUNTY LANDFILL, INC.**2550 STEELE ROAD  
THE DALLES, OR 97058

TEL: 541-296-4082

DATE: 11/8/07  
TICKET NUMBER: 93736TIME IN: 2:21 PM  
TIME OUT: 12:00 AMACCOUNT #: 491  
CUSTOMER: WEST COAST MARINE CLEANING  
P.O. BOX 61944  
VANCOUVER, WA 98666

## SCALE READINGS

Gross:	42,740 lbs	21.37 Tons
Tare:	27,860 lbs	13.93 Tons
Net Wt:	14,880 lbs	7.44 Tons

WASTE SOURCE: MULTNOMAH CO  
TRUCK: 59  
COMMENT: 117

Waste Type	Material Description	Unit Price	Fees	Extended Price
LIQ	LIQUIDS/SEMI-SOLIDS	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER \_\_\_\_\_

DRIVER SIGNATURE: \_\_\_\_\_

**WASCO COUNTY LANDFILL, INC.**2550 STEELE ROAD  
THE DALLES, OR 97058

TEL: 541-296-4082

DATE: 11/8/07  
TICKET NUMBER: 93718TIME IN: 12:58 PM  
TIME OUT: 12:00 AMACCOUNT #: 491  
CUSTOMER: WEST COAST MARINE CLEANING  
P.O. BOX 61944  
VANCOUVER, WA 98666

## SCALE READINGS

Gross:	54,300 lbs	27.15 Tons
Tare:	28,780 lbs	14.39 Tons
Net Wt:	25,520 lbs	12.76 Tons

WASTE SOURCE: MULTNOMAH CO  
TRUCK: 59  
COMMENT:

Waste Type	Material Description	Unit Price	Fees	Extended Price
LIQ	LIQUIDS/SEMI-SOLIDS	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER \_\_\_\_\_

DRIVER SIGNATURE: \_\_\_\_\_



**WASCO COUNTY LANDFILL, INC.**2550 STEELE ROAD  
THE DALLES, OR 97058

TEL: 541-296-4082

DATE: 11/9/07  
TICKET NUMBER: 93796TIME IN: 11:08 AM  
TIME OUT: 12:00 AM

ACCOUNT #: 491

CUSTOMER: WEST COAST MARINE CLEANING  
P.O. BOX 61944  
VANCOUVER, WA 98666

## SCALE READINGS

Gross:	41,920 lbs	20.96 Tons
Tare:	28,560 lbs	14.28 Tons
Net Wt:	13,360 lbs	6.68 Tons

WASTE SOURCE: MULTNOMAH CO

TRUCK: 59

COMMENT:

Waste Type	Material Description	Unit Price	Fees	Extended Price
LIQ	LIQUIDS/SEMI-SOLIDS	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER \_\_\_\_\_

DRIVER SIGNATURE: \_\_\_\_\_

**WASCO COUNTY LANDFILL, INC.**2550 STEELE ROAD  
THE DALLES, OR 97058

TEL: 541-296-4082

DATE: 11/9/07  
TICKET NUMBER: 93795TIME IN: 11:06 AM  
TIME OUT: 12:00 AM

ACCOUNT #: 491

CUSTOMER: WEST COAST MARINE CLEANING  
P.O. BOX 61944  
VANCOUVER, WA 98666

## SCALE READINGS

Gross:	42,360 lbs	21.18 Tons
Tare:	27,580 lbs	13.79 Tons
Net Wt:	14,780 lbs	7.39 Tons

WASTE SOURCE: MULTNOMAH CO

TRUCK: 59

COMMENT:

Waste Type	Material Description	Unit Price	Fees	Extended Price
LIQ	LIQUIDS/SEMI-SOLIDS	----	----	-----

By signing this, I certify that this disposal material originated in the county/state as stated above. I also certify that to the best of my knowledge this load contains no hazardous or 'special' waste, and is not potentially dangerous to landfill customers, employees, or to the environment.

WEIGHMASTER \_\_\_\_\_

DRIVER SIGNATURE: \_\_\_\_\_











## Sample Result Summary

Samples were composite samples collected from the contaminated sediments in the dewatering boxes

Sample Date	Sample ID	EPA 8082 Aroclor 1016	EPA 8082 Aroclor 1221	EPA 8082 Aroclor 1232	EPA 8082 Aroclor 1242	EPA 8082 Aroclor 1248	EPA 8082 Aroclor 1254	EPA 8082 Aroclor 1260	EPA 8082 Aroclor 1262	EPA 8082 Aroclor 1268
10/04/07	PCB 1	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/04/07	PCB 2	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/23/07	PCB 3	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/23/07	PCB 4	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/29/07	PCB 5	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/29/07	PCB 6	ND	ND	ND	ND	ND	ND	ND	ND	ND



October 08, 2007

Mark Hallock  
Huang & Associates, Inc.  
9880 Waterman Rd #130  
Elk Grove, CA 95621

RE: Bradford

Enclosed are the results of analyses for samples received by the laboratory on 10/05/07 09:25.  
The following list is a summary of the Work Orders contained in this report, generated on 10/08/07 15:00.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BQJ0161	Bradford	HA02



**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name:

**Bradford**

Project Number:

HA02

Project Manager:

Mark Hallock

Report Created:

10/08/07 15:00

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PCB 1	BQJ0161-01	Soil	10/04/07 12:20	10/05/07 09:25
PCB 2	BQJ0161-02	Soil	10/04/07 12:20	10/05/07 09:25

TestAmerica - Seattle, WA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.*



Sandra Yakamavich, Project Manager





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
10/08/07 15:00

## Polychlorinated Biphenyls by EPA Method 8082 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>BQJ0161-01 (PCB 1)</b>		Soil								
Sampled: 10/04/07 12:20										
Aroclor 1016	EPA 8082	ND	----	37.1	ug/kg dry	1x	7J04024	10/05/07 10:21	10/05/07 19:09	
Aroclor 1221	"	ND	----	74.1	"	"	"	"	"	
Aroclor 1232	"	ND	----	37.1	"	"	"	"	"	
Aroclor 1242	"	ND	----	37.1	"	"	"	"	"	
Aroclor 1248	"	ND	----	37.1	"	"	"	"	"	
Aroclor 1254	"	ND	----	37.1	"	"	"	"	"	R10
Aroclor 1260	"	ND	----	37.1	"	"	"	"	"	
Aroclor 1262	"	ND	----	37.1	"	"	"	"	"	
Aroclor 1268	"	ND	----	37.1	"	"	"	"	"	
Surrogate(s): TCX										
			92.6%		65 - 125 %	"			"	
Decachlorobiphenyl										
			85.7%		40 - 150 %	"			"	

<b>BQJ0161-02 (PCB 2)</b>		Soil								
Sampled: 10/04/07 12:20										
Aroclor 1016	EPA 8082	ND	----	34.9	ug/kg dry	1x	7J04024	10/05/07 10:21	10/05/07 19:27	
Aroclor 1221	"	ND	----	69.7	"	"	"	"	"	
Aroclor 1232	"	ND	----	34.9	"	"	"	"	"	
Aroclor 1242	"	ND	----	34.9	"	"	"	"	"	
Aroclor 1248	"	ND	----	34.9	"	"	"	"	"	
Aroclor 1254	"	ND	----	34.9	"	"	"	"	"	R10
Aroclor 1260	"	ND	----	34.9	"	"	"	"	"	
Aroclor 1262	"	ND	----	34.9	"	"	"	"	"	
Aroclor 1268	"	ND	----	34.9	"	"	"	"	"	
Surrogate(s): TCX										
			88.0%		65 - 125 %	"			"	
Decachlorobiphenyl										
			80.7%		40 - 150 %	"			"	

TestAmerica - Seattle, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

  
Sandra Yakamovich, Project Manager





**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name:

**Bradford**

Project Number:

HA02

Project Manager:

Mark Hallock

Report Created:

10/08/07 15:00

**Physical Parameters by APHA/ASTM/EPA Methods**

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>BQJ0161-01 (PCB 1)</b>		<b>Soil</b>					<b>Sampled: 10/04/07 12:20</b>			
Dry Weight	BSOPSPLO03R0 8	67.7	----	1.00	%	1x	7J05038	10/05/07 11:39	10/08/07 00:00	
<b>BQJ0161-02 (PCB 2)</b>		<b>Soil</b>					<b>Sampled: 10/04/07 12:20</b>			
Dry Weight	BSOPSPLO03R0 8	71.9	----	1.00	%	1x	7J05038	10/05/07 11:39	10/08/07 00:00	

TestAmerica - Seattle, WA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.*



Sandra Yakamavich, Project Manager





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
10/08/07 15:00

## Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7J04024

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (7J04024-BLK1)</b>										Extracted: 10/04/07 11:21				
Aroclor 1016	EPA 8082	ND	---	25.0	ug/kg wet	1x	--	--	--	--	--	--	10/05/07 12:51	
Aroclor 1221	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1262	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1268	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	

Surrogate(s): TCX  
Decachlorobiphenyl

Recovery: 86.6%  
82.9%

Limits: 65-125%  
40-150%

10/05/07 12:51  
"

## LCS (7J04024-BS1)

Extracted: 10/04/07 11:21

Aroclor 1016	EPA 8082	73.1	---	25.0	ug/kg wet	1x	--	83.3	87.8%	(80-120)	--	--	10/05/07 13:09	
Aroclor 1260	"	73.9	---	25.0	"	"	--	"	88.7%	(70-124)	--	--	"	

Surrogate(s): TCX  
Decachlorobiphenyl

Recovery: 86.2%  
84.1%

Limits: 65-125%  
40-150%

10/05/07 13:09  
"

## Matrix Spike (7J04024-MS1)

QC Source: BQJ0160-01

Extracted: 10/04/07 11:21

Aroclor 1016	EPA 8082	78.8	---	133	ug/kg dry	5x	ND	88.9	88.7%	(68-132)	--	--	10/05/07 14:24	
Aroclor 1260	"	670	---	133	"	"	847	"	-199%	(59-131)	--	--	"	MHA

Surrogate(s): TCX  
Decachlorobiphenyl

Recovery: 85.2%  
94.2%

Limits: 65-125%  
40-150%

10/05/07 14:24  
"

## Matrix Spike Dup (7J04024-MSD1)

QC Source: BQJ0160-01

Extracted: 10/04/07 11:21

Aroclor 1016	EPA 8082	78.8	---	133	ug/kg dry	5x	ND	88.9	88.7%	(68-132)	0.0203% (20)		10/05/07 13:48	
Aroclor 1260	"	1000	---	133	"	"	847	"	175%	(59-131)	39.7% (35)		"	MHA

Surrogate(s): TCX  
Decachlorobiphenyl

Recovery: 86.1%  
93.0%

Limits: 65-125%  
40-150%

10/05/07 13:48  
"

TestAmerica - Seattle, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

  
Sandra Yakamovich, Project Manager





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
10/08/07 15:00

## Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results


TestAmerica - Seattle, WA

QC Batch: 7J05038

Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (7J05038-BLK1)</b>										Extracted: 10/05/07 11:39				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	10/08/07 00:00	

TestAmerica - Seattle, WA



Sandra Yakamavich, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
10/08/07 15:00

## Notes and Definitions

### Report Specific Notes:

- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- R10 - The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the lower value was reported due to apparent chromatographic problems.

### Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.





## ANALYTICAL TESTING CORPORATION

425-420-9200 FAX 420-9210  
509-924-9200 FAX 924-9290  
503-906-9200 FAX 906-9210  
907-563-9200 FAX 563-9210

**Work Order #:**

BQJ014

10.05.07  
0925



October 30, 2007

Mark Hallock  
Huang & Associates, Inc.  
9880 Waterman Rd #130  
Elk Grove, CA 95621

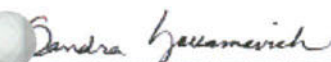
RE: Bradford

Enclosed are the results of analyses for samples received by the laboratory on 10/24/07 09:50.  
The following list is a summary of the Work Orders contained in this report, generated on 10/30/07 16:55.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BQJ0529	Bradford	HA02

TestAmerica - Seattle, WA



Sandra Yakamavich, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.*





**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
10/30/07 16:55

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PCB 3	BQJ0529-01	Soil	10/23/07 10:25	10/24/07 09:50
PCB 4	BQJ0529-02	Soil	10/23/07 10:15	10/24/07 09:50



Sandra Yakamavich, Project Manager





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**

Project Number: HA02

Project Manager: Mark Hallock

Report Created:

10/30/07 16:55

## Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>BQJ0529-01 (PCB 3)</b>		<b>Soil</b>		<b>Sampled: 10/23/07 10:25</b>						
Aroclor 1016	EPA 8082	ND	----	35.8	ug/kg dry	1x	7J24038	10/24/07 13:33	10/28/07 00:04	
Aroclor 1221	"	ND	----	71.6	"	"	"	"	"	
Aroclor 1232	"	ND	----	35.8	"	"	"	"	"	
Aroclor 1242	"	ND	----	35.8	"	"	"	"	"	
Aroclor 1248	"	ND	----	35.8	"	"	"	"	"	
Aroclor 1254	"	ND	----	35.8	"	"	"	"	"	
Aroclor 1260	"	ND	----	35.8	"	"	"	"	"	
Aroclor 1262	"	ND	----	35.8	"	"	"	"	"	
Aroclor 1268	"	ND	----	35.8	"	"	"	"	"	
Surrogate(s): TCX			99.7%		65 - 125 %	"			"	
Decachlorobiphenyl			95.0%		40 - 150 %	"			"	

<b>BQJ0529-02 (PCB 4)</b>		<b>Soil</b>		<b>Sampled: 10/23/07 10:15</b>						
Aroclor 1016	EPA 8082	ND	----	39.6	ug/kg dry	1x	7J24038	10/24/07 13:33	10/28/07 00:22	
Aroclor 1221	"	ND	----	79.3	"	"	"	"	"	
Aroclor 1232	"	ND	----	39.6	"	"	"	"	"	
Aroclor 1242	"	ND	----	39.6	"	"	"	"	"	
Aroclor 1248	"	ND	----	39.6	"	"	"	"	"	
Aroclor 1254	"	ND	----	39.6	"	"	"	"	"	
Aroclor 1260	"	ND	----	39.6	"	"	"	"	"	
Aroclor 1262	"	ND	----	39.6	"	"	"	"	"	
Aroclor 1268	"	ND	----	39.6	"	"	"	"	"	
Surrogate(s): TCX			97.1%		65 - 125 %	"			"	
Decachlorobiphenyl			99.6%		40 - 150 %	"			"	





**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name:

**Bradford**

Project Number:

HA02

Project Manager:

Mark Hallock

Report Created:

10/30/07 16:55

**Physical Parameters by APHA/ASTM/EPA Methods**

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>BQJ0529-01 (PCB 3)</b>		<b>Soil</b>								<b>Sampled: 10/23/07 10:25</b>
Dry Weight	BSOPSPL003R0 8	69.4	-----	1.00	%	1x	7J25042	10/25/07 14:49	10/26/07 00:00	
<b>BQJ0529-02 (PCB 4)</b>		<b>Soil</b>								<b>Sampled: 10/23/07 10:15</b>
Dry Weight	BSOPSPL003R0 8	62.5	-----	1.00	%	1x	7J25042	10/25/07 14:49	10/26/07 00:00	

TestAmerica - Seattle, WA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.*

*Sandra Yakamavich*

Sandra Yakamavich, Project Manager





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
10/30/07 16:55

## Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7J24038

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7J24038-BLK2)										Extracted: 10/24/07 13:33				
Aroclor 1016	EPA 8082	ND	---	25.0	ug/kg wet	1x	--	--	--	--	--	--	10/27/07 22:53	
Aroclor 1221	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1262	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1268	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	

Surrogate(s): TCX  
Decachlorobiphenyl

Recovery: 98.1%  
98.9%

Limits: 65-125%  
40-150%

10/27/07 22:53  
"

## LCS (7J24038-BS2)

Extracted: 10/24/07 13:33

Aroclor 1016	EPA 8082	81.6	---	25.0	ug/kg wet	1x	--	83.3	97.9%	(80-120)	--	--	10/27/07 23:11
Aroclor 1260	"	84.9	---	25.0	"	"	--	"	102%	(70-124)	--	--	"

Surrogate(s): TCX  
Decachlorobiphenyl

Recovery: 97.5%  
100%

Limits: 65-125%  
40-150%

10/27/07 23:11  
"

## Matrix Spike (7J24038-MS2)

QC Source: BQJ0529-01

Extracted: 10/24/07 13:33

Aroclor 1016	EPA 8082	119	---	35.4	ug/kg dry	1x	ND	118	101%	(68-132)	--	--	10/27/07 23:28
Aroclor 1260	"	114	---	35.4	"	"	ND	"	96.7%	(59-131)	--	--	"

Surrogate(s): TCX  
Decachlorobiphenyl

Recovery: 99.0%  
91.0%

Limits: 65-125%  
40-150%

10/27/07 23:28  
"

## Matrix Spike Dup (7J24038-MSD2)

QC Source: BQJ0529-01

Extracted: 10/24/07 13:33

Aroclor 1016	EPA 8082	119	---	36.6	ug/kg dry	1x	ND	122	97.8%	(68-132)	0.281% (20)		10/27/07 23:46
Aroclor 1260	"	132	---	36.6	"	"	ND	"	108%	(59-131)	14.6% (35)		"

Surrogate(s): TCX  
Decachlorobiphenyl

Recovery: 98.7%  
99.2%

Limits: 65-125%  
40-150%

10/27/07 23:46  
"

TestAmerica - Seattle, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

  
Sandra Yakamavich, Project Manager





**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name:

**Bradford**

Project Number:

HA02

Project Manager:

Mark Hallock

Report Created:

10/30/07 16:55

**Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results**

TestAmerica - Seattle, WA

QC Batch: 7J25042

Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (7J25042-BLK1)</b>										Extracted: 10/25/07 14:49				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	10/26/07 00:00	

TestAmerica - Seattle, WA

*Sandra Yakamavich*

Sandra Yakamavich, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.*





**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name:

**Bradford**

Project Number:

HA02

Project Manager:

Mark Hallock

Report Created:

10/30/07 16:55

## Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B.  
\*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.  
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.  
Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Seattle, WA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.*



Sandra Yakamavich, Project Manager





# TestAmerica

ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244  
 11922 E. First Ave, Spokane, WA 99206-5302  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: **6010529**

CLIENT: <b>HAI - Group</b>		INVOICE TO: <b>SAME</b>	
REPORT TO: <b>MARK HALLOCK</b>			
ADDRESS: <b>9880 WATERMAN RD. #130</b>			
<b>ELK GROVE, CA. 95624</b>			
PHONE: <b>916-956-5188</b> FAX: <b>916-686-0642</b>		P.O. NUMBER:	
PROJECT NAME: <b>BRADFORD</b>		PRESERVATIVE	
PROJECT NUMBER: <b>HA02</b>		REQUESTED ANALYSES	
SAMPLED BY: <b>LARRY</b>			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		
1 <b>PCB 3</b>	<b>10-23-07 10:25</b>	<b>X</b>	
2 <b>PCB 4</b>	<b>10-23-07 10:15</b>	<b>X</b>	
3			
4			
5			
6			
7			
8			
9			
10			
RELEASED BY: <b>LARRY D. PENNOCK</b> FIRM: <b>HAI</b> DATE: <b>10-23-07</b> TIME: <b>2:25</b>		RECEIVED BY: <b>Jamie Ireland</b> FIRM: <b>TAP</b> DATE: <b>10/23/07</b> TIME: <b>11:25</b>	
RELEASED BY: <b>LARRY D. PENNOCK</b> FIRM: <b>HAI</b> DATE: <b>10-23-07</b> TIME: <b>2:25</b>		RECEIVED BY: <b>Cathy Ireland</b> FIRM: <b>TAL-Sea</b> DATE: <b>10/24/07</b> TIME: <b>1:00</b>	
ADDITIONAL REMARKS:		TEMP: <b>3.7</b> PAGE OF	

**TURNAROUND REQUEST**  
 in Business Days \*

Organic & Inorganic Analyses  
 10 7 5 4 3 2 1 <1  
 STD.

Petroleum Hydrocarbon Analyses  
 5 4 3 2 1 <1  
 STD.

OTHER Specify:  
 \* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
<b>S</b>	<b>1</b>		<b>01</b>
<b>S</b>	<b>1</b>		<b>02</b>

TAL-Sea 2.5  
 w/as



November 05, 2007

Mark Hallock  
Huang & Associates, Inc.  
9880 Waterman Rd #130  
Elk Grove, CA 95621

RE: Bradford

Enclosed are the results of analyses for samples received by the laboratory on 10/31/07 09:30.  
The following list is a summary of the Work Orders contained in this report, generated on 11/05/07 10:00.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BQJ0667	Bradford	HA02



**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name:

**Bradford**

Project Number:

HA02

Project Manager:

Mark Hallock

Report Created:

11/05/07 10:00

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PCB05	BQJ0667-01	Soil	10/29/07 11:00	10/31/07 09:30
PCB06	BQJ0667-02	Soil	10/29/07 11:13	10/31/07 09:30

TestAmerica - Seattle, WA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.*



Sandra Yakamavich, Project Manager





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
11/05/07 10:00

## Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>BQJ0667-01 (PCB05)</b>		<b>Soil</b>		<b>Sampled: 10/29/07 11:00</b>						
Aroclor 1016	EPA 8082	ND	----	36.1	ug/kg dry	1x	7J31039	11/01/07 09:52	11/01/07 20:22	
Aroclor 1221	"	ND	----	72.3	"	"	"	"	"	
Aroclor 1232	"	ND	----	36.1	"	"	"	"	"	
Aroclor 1242	"	ND	----	36.1	"	"	"	"	"	
Aroclor 1248	"	ND	----	36.1	"	"	"	"	"	
Aroclor 1254	"	ND	----	36.1	"	"	"	"	"	
Aroclor 1260	"	ND	----	36.1	"	"	"	"	"	
Aroclor 1262	"	ND	----	36.1	"	"	"	"	"	
Aroclor 1268	"	ND	----	36.1	"	"	"	"	"	
Surrogate(s): TCX			85.0%		65 - 125 %	"			"	
Decachlorobiphenyl			79.5%		40 - 150 %	"			"	

<b>BQJ0667-02 (PCB06)</b>		<b>Soil</b>		<b>Sampled: 10/29/07 11:13</b>						
Aroclor 1016	EPA 8082	ND	----	38.2	ug/kg dry	1x	7J31039	11/01/07 09:52	11/01/07 20:40	
Aroclor 1221	"	ND	----	76.4	"	"	"	"	"	
Aroclor 1232	"	ND	----	38.2	"	"	"	"	"	
Aroclor 1242	"	ND	----	38.2	"	"	"	"	"	
Aroclor 1248	"	ND	----	38.2	"	"	"	"	"	
Aroclor 1254	"	ND	----	38.2	"	"	"	"	"	
Aroclor 1260	"	ND	----	38.2	"	"	"	"	"	
Aroclor 1262	"	ND	----	38.2	"	"	"	"	"	
Aroclor 1268	"	ND	----	38.2	"	"	"	"	"	
Surrogate(s): TCX			83.4%		65 - 125 %	"			"	
Decachlorobiphenyl			87.7%		40 - 150 %	"			"	

TestAmerica - Seattle, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

  
Sandra Yakamovich, Project Manager





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
11/05/07 10:00

## Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>BQJ0667-01 (PCB05)</b>		<b>Soil</b>								<b>Sampled: 10/29/07 11:00</b>
Dry Weight	BSOPSPL003R0 8	69.2	----	1.00	%	1x	7K02040	11/02/07 14:13	11/05/07 09:53	
<b>BQJ0667-02 (PCB06)</b>		<b>Soil</b>								<b>Sampled: 10/29/07 11:13</b>
Dry Weight	BSOPSPL003R0 8	65.5	----	1.00	%	1x	7K02040	11/02/07 14:13	11/05/07 09:53	

TestAmerica - Seattle, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

  
Sandra Yakamavich, Project Manager





## Huang & Associates, Inc.

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
11/05/07 10:00

## Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7J31039

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (7J31039-BLK1)</b>										Extracted: 11/01/07 09:52				
Aroclor 1016	EPA 8082	ND	---	25.0	ug/kg wet	1x	--	--	--	--	--	--	11/01/07 19:47	
Aroclor 1221	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1262	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1268	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): TCX		Recovery: 88.4%		Limits: 65-125%		"						11/01/07 19:47		
Decachlorobiphenyl		83.6%		40-150%		"						"		

## LCS (7J31039-BS1)

Extracted: 11/01/07 09:52

Aroclor 1016	EPA 8082	73.2	---	25.0	ug/kg wet	1x	--	83.3	87.9%	(80-120)	--	--	11/01/07 21:32	
Aroclor 1260	"	70.6	---	25.0	"	"	--	"	84.7%	(70-124)	--	--	"	
Surrogate(s): TCX		Recovery: 87.1%		Limits: 65-125%		"						11/01/07 21:32		
Decachlorobiphenyl		83.9%		40-150%		"						"		

## Matrix Spike (7J31039-MS1)

QC Source: BQJ0653-10

Extracted: 11/01/07 09:52

Aroclor 1016	EPA 8082	137	---	29.7	ug/kg dry	1x	ND	98.9	139%	(68-132)	--	--	11/01/07 20:57	M1
Aroclor 1260	"	95.8	---	29.7	"	"	ND	"	96.9%	(59-131)	--	--	"	
Surrogate(s): TCX		Recovery: 86.1%		Limits: 65-125%		"						11/01/07 20:57		
Decachlorobiphenyl		77.9%		40-150%		"						"		

## Matrix Spike Dup (7J31039-MSD1)

QC Source: BQJ0653-10

Extracted: 11/01/07 09:52

Aroclor 1016	EPA 8082	125	---	29.7	ug/kg dry	1x	ND	98.9	127%	(68-132)	9.16%	(20)	11/01/07 21:15	
Aroclor 1260	"	94.3	---	29.7	"	"	ND	"	95.4%	(59-131)	1.63%	(35)	"	
Surrogate(s): TCX		Recovery: 85.7%		Limits: 65-125%		"						11/01/07 21:15		
Decachlorobiphenyl		82.2%		40-150%		"						"		

TestAmerica - Seattle, WA

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Sandra Yakamovich, Project Manager





**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name:

**Bradford**

Project Number:

HA02

Project Manager:

Mark Hallock

Report Created:

11/05/07 10:00

**Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results**

TestAmerica - Seattle, WA

QC Batch: 7K02040

Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7K02040-BLK1)

Extracted: 11/02/07 14:13

Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	11/05/07 09:53	
------------	-------------------	-----	-----	------	---	----	----	----	----	----	----	----	----------------	--

TestAmerica - Seattle, WA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.*

*Sandra Yakamavich*

Sandra Yakamavich, Project Manager





**Huang & Associates, Inc.**

9880 Waterman Rd #130  
Elk Grove, CA 95621

Project Name: **Bradford**  
Project Number: HA02  
Project Manager: Mark Hallock

Report Created:  
11/05/07 10:00

## Notes and Definitions

### Report Specific Notes:

M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

### Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B.  
\*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.  
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.  
Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



Sandra Yakamavich, Project Manager





# TestAmerica

ANALYTICAL TESTING CORPORATION

11 720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210  
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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: **BQ20667**

CLIENT: <b>HUANG &amp; ASSOC. INC.</b>		INVOICE TO: <b>SAME</b>	
REPORT TO: <b>MARK HALLOCK</b>			
ADDRESS: <b>9880 WATERMAN RD. #130</b>			
<b>ELK GROVE, CA. 95624</b>			
PHONE: <b>916-956-5188</b> FAX: <b>916-686-0642</b>		P.O. NUMBER:	
PROJECT NAME: <b>BRADFORD</b>	PRESERVATIVE		
PROJECT NUMBER: <b>HA02</b>			
SAMPLED BY: <b>LARRY</b>	REQUESTED ANALYSES		
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		
1 <b>PLB05</b>	<b>10-29-07 11:00 AM</b>	<b>X</b>	
2 <b>PLB06</b>	<b>10-29-07 11:13 AM</b>	<b>X</b>	
3			
4			
5			
6			
7			
8			
9			
10			

**③ TURNAROUND REQUEST**  
 in Business Days \*

Organic & Inorganic Analyses  
 10 7 5 4 3 2 1 <1  
 STD.

Petroleum Hydrocarbon Analyses  
 5 4 3 2 1 <1  
 STD.

**OTHER** Specify:  
 \* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA W/O ID
<b>S</b>	<b>1</b>		<b>-01</b>
<b>S</b>	<b>1</b>		<b>-02</b>

RELEASED BY: <b>LARRY D. PENNIOCA</b> FIRM: <b>HAZ</b>	DATE: <b>10-29-07</b> TIME: <b>4:30 P.M.</b>	RECEIVED BY: <b>Peggy Siegfried</b>	DATE: <b>10/29/07</b> TIME: <b>1630</b>
RELEASED BY: <b>Peggy Siegfried</b> FIRM: <b>TAP</b>	DATE: <b>10/30/07</b> TIME: <b>1440</b>	RECEIVED BY: <b>Collette Weaver</b>	DATE: <b>10-31-07</b> TIME: <b>0930</b>
ADDITIONAL REMARKS:		FIRM: <b>TAL-Seattle</b>	

TEMP: **13.1** PAGE OF **-0.2°C w/cs**










US Army Corps  
of Engineers  
Portland District

# BRADFORD ISLAND REMEDIAL DESIGN FOR IN-WATER REMOVAL ACTION

THIS PROJECT WAS DESIGNED BY THE PORTLAND DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152 AND INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL THE DRAWINGS IN THIS SET.

  
DONALD R. CHAMBERS, P.E.  
CHIEF, DESIGN BRANCH

  
HOWARD B. JONES, P.E.  
CHIEF, ENGINEERING & CONSTRUCTION DIVISION

  
THOMAS E. O'DONOVAN  
COLONEL, CORPS OF ENGINEERS  
DISTRICT COMMANDER

DATE: 26 APR '07

**AS-BUILT**  
CONTRACT NO: W9127N-07-C-0017





BRADFORD ISLAND AND BONNEVILLE DAM FOREBAY  
CASCADE LOCKS, OREGON

**LEGEND:**

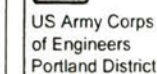
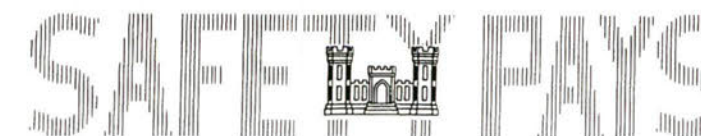
- ABBREVIATIONS:

- ### VICINITY MAP



**AS-BUILT**

CONTRACT NO: W9127N-07-C-0017

[illegible]

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS PORTLAND, OREGON	DESIGNED BY	MEMO	DATE	10/23/06
	DRAWN BY	CHECKED BY	SOLICITATION NO.	
	CFS	WL30	W9127N-01-R-0020	
	FILE NAME		CONTRACT NO.	
URS CORPORATION SEATTLE, WASHINGTON	SUBMITTED BY		DACW-	

**COLUMBIA RIVER**  
**OREGON**  
**BRADFORD ISLAND REMEDIAL DESIGN**  
**FOR IN-WATER REMOVAL ACTION**

**TITLE SHEET:**  
**VICINITY MAP, AREA MAP,**  
**AND DRAWING INDEX**

DRAWING NUMBER	BDG-0-17/1
SHEET NUMBER	G-1

FILENAME: T:\COE\Brodford\SubTasks\Design\G-1 TITLE.dwg  
EDIT DATE: 04/20/07 AT: 12:47

DRAWING PLOT SIZE

DATE AND TIME PLOTTED \_\_\_\_\_

BY USERNAME:

SHEET NAME:

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**REVISED  
AS-BUILT**

1. BARGE SIZING AND DIMENSIONS SHOWN ARE APPROX (AS PROVIDED BY CONTRACTOR AND BY ONLINE LITERATURE) AND ARE SUBJECT TO CHANGE. BARGE SHALL BE CLEANED PRIOR TO ACCESS TO THE SITE.
2. CONTRACTOR SHALL SUBMIT FINAL BARGE DIMENSIONS, BULKHEAD AND BRACING DESIGN, AND DEWATERING BOX LAYOUT FOR APPROVAL BY THE GOAR. DEWATERING BOXES SHALL BE PLACED SO THAT CONTRACTOR HAS ADEQUATE CLEARANCE TO MANEUVER NECESSARY EQUIPMENT AND PERSONNEL IN A SAFE AND EFFICIENT MANNER.
3. THE ENTIRE CARGO COMPARTMENT OF THE BARGE AND THE BULKHEAD SHALL BE WATERTIGHT.
4. A MIN OF 8.7 HOURS OF RETENTION TIME BASED ON DREDGING FLOW RATE SHALL BE PROVIDED FOR DREDGED MATERIAL, COMBINED BETWEEN DEWATERING BOXES AND BULK SETTLING AREA.
5. CONTRACTOR SHALL SUPPLY ALL PIPING WHICH INTERCONNECTS THE DEWATERING BOXES, AND SHALL ENSURE THAT ALL BOXES AND CONNECTIONS ARE WATERTIGHT. CONTRACTOR SHALL INSPECT ALL PIPING AND CONNECTIONS EVERY WORKING DAY FOR LEAKS, AND REPAIR AS REQUIRED.
6. AS DEWATERING BOXES BECOME FULL OF SEDIMENT, INFLUENT HOSE FROM HYDRAULIC DREDGE SHALL BE MOVED TO THE NEXT BOX, AND THE FULL BOX SHALL BE ISOLATED.
7. CONTRACTOR SHALL INSTALL A FLOATING GEOTEXTILE CURTAIN TO LIMIT SILT SUSPENSION AND MOVEMENT OF SILT PARTICLES INTO THE AREA AROUND THE FLOATING SUCTION STRAINER.
8. FLOATING SUCTION STRAINER SHALL BE A 6-INCH MEGATOR DOLPHIN OR APPROVED EQUAL.
9. ACTIVATED CARBON ADSORPTION UNIT EFFLUENT HOSE SHALL DISCHARGE TO THE COLUMBIA RIVER. DISCHARGE PIPE SHALL HAVE A SAMPLING PORT ACCESSIBLE FROM THE BARGE DECK.
10. WATERTIGHT BULKHEAD IS DIMENSIONED FROM DEWATERING BOXES NEAREST TO THE BOW END OF THE BARGE, AS SHOWN. BULK SETTLING AREA SHALL BE MAXIMIZED.
11. FREE WATER SHALL BE PUMPED FROM EACH DEWATERING BOX TO THE BULK SETTLING AREA, THROUGH THE SAND FILTER, THEN THROUGH THE ACTIVATED CARBON ADSORPTION UNIT BEFORE DISCHARGE TO THE RIVER.
12. AFTER INSTALLATION OF THE TREATMENT SYSTEM AND AFTER CONTRACTOR AND MANUFACTURERS' REPRESENTATIVES AGREE THAT THE SYSTEM IS READY FOR OPERATION, CONTRACTOR SHALL DEMONSTRATE PROPER OPERATION OF THE EQUIPMENT OVER AN INITIAL OPERATING PERIOD NOT TO EXCEED 1 DAY.
13. RIVER WATER MAY BE USED FOR BALLAST IN THE BULK SETTLING AREA DURING STARTUP OPERATION, UNTIL DISPLACED WITH DEWATERING BOX EFFLUENT.
14. APPROVAL OF THE GOAR SHALL BE OBTAINED PRIOR TO TRANSPORTATION OF EACH DEWATERING BOX TO THE DISPOSAL FACILITY.
15. CONTRACTOR SHALL DECONTAMINATE ALL EQUIPMENT THAT COMES INTO CONTACT WITH SEDIMENT OR DECANT WATER, PRIOR TO DEMOBILIZATION FROM SITE.

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